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JULY 10, 1948

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Supplies: 'Anthisan' cream (2 *per cent.* pyranisamine maleate) in 1 oz. collapsible tubes — 3s. 6d. — subject to usual trade discount.

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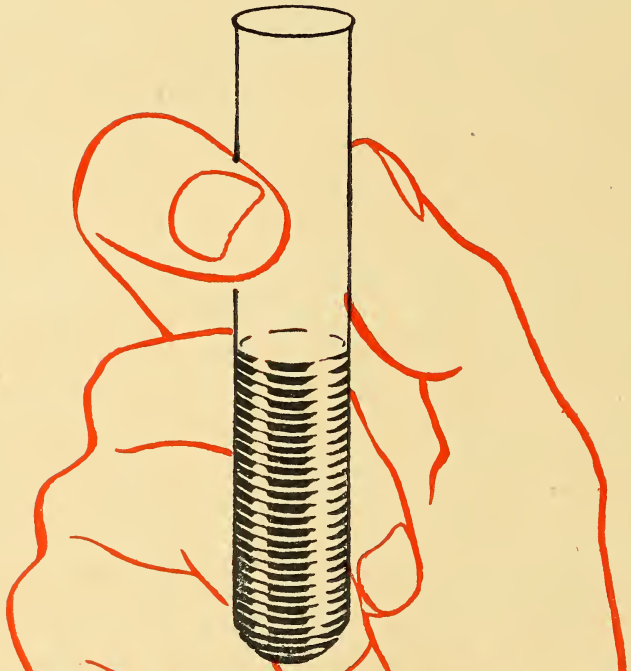
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Box of 10 vials (reduced from 14/6d.) 13/9d.

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		Old Price	**New Price**	Old Price	**New Price**
200,000 units	vials	23/-	**20/-**	2/4d.	**2/-**
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	Old Price	**New Price**
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PENICILLIN OILY INJECTION B.P. *Glaxo* 10 cc. vials	21/-	**18/-**

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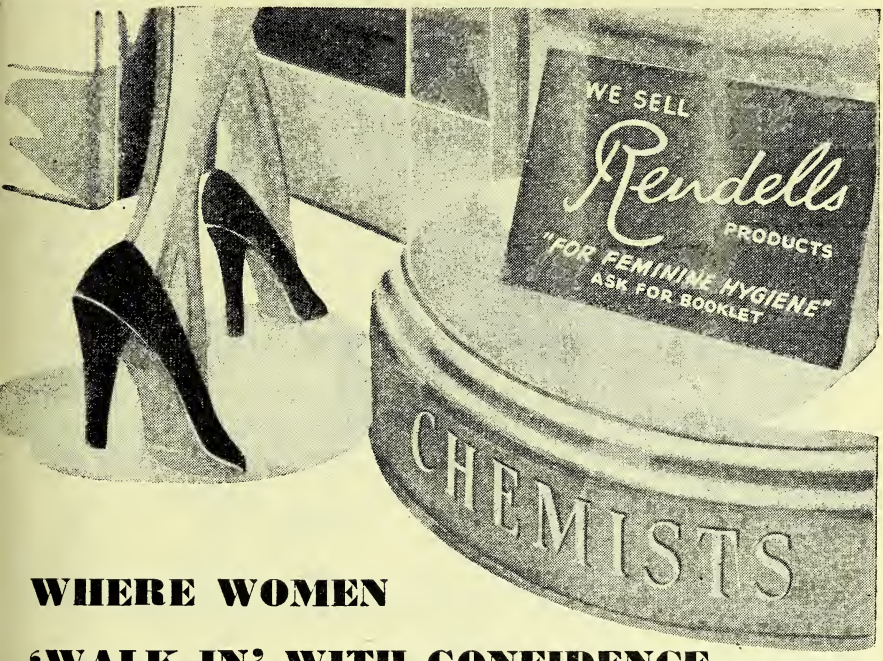
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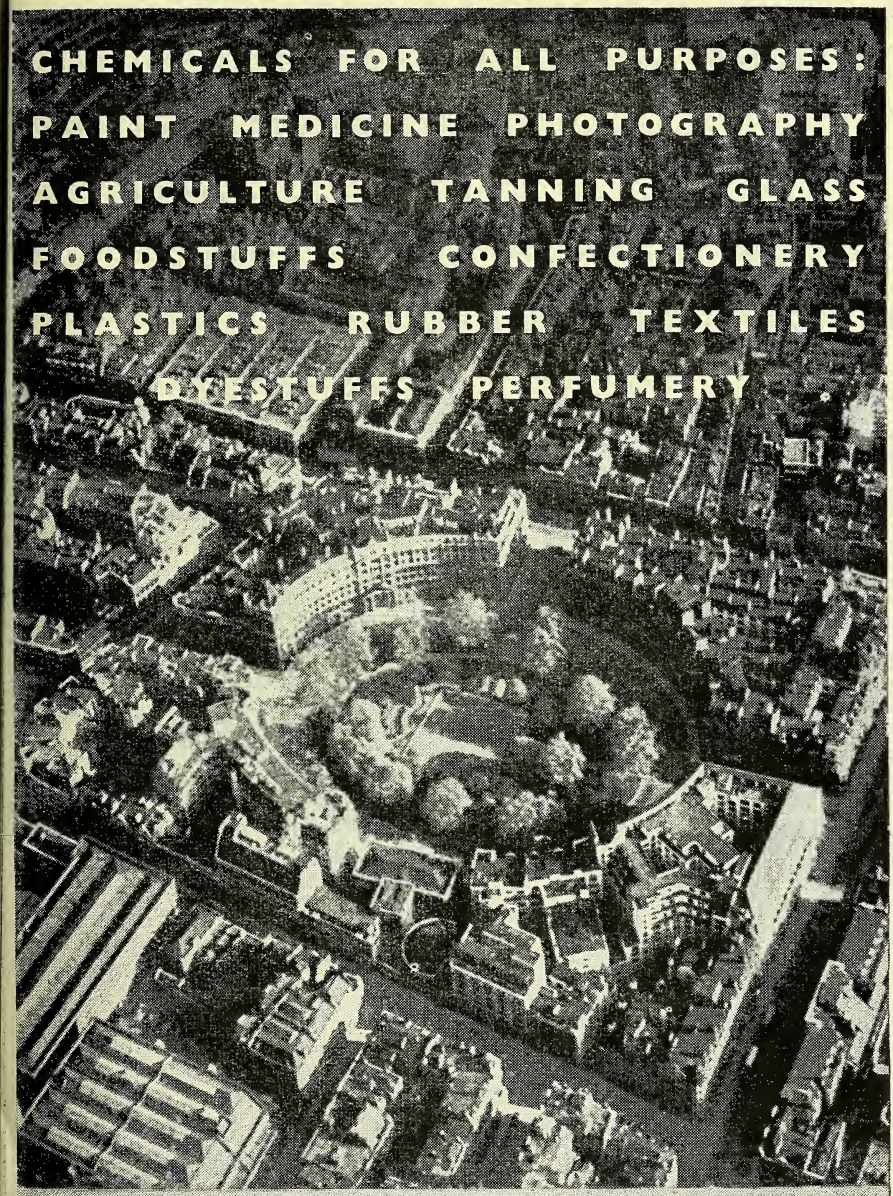
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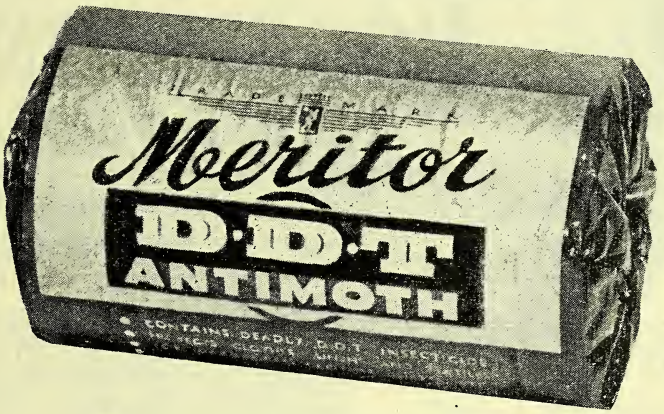
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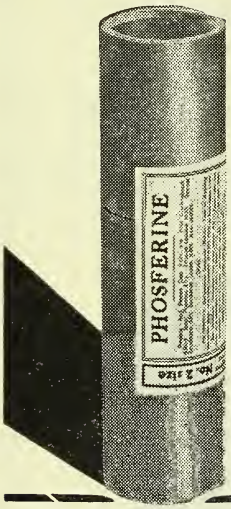
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SUBJECT TO 33⅓

Physicians have been advised.

GEDEON RICHTER (G.B.) LTD
Telephone: GUL 3478

Antiphlogistine
TRADE MARK

P.A.T.A.

=A QUALITY PRODUCT

THERAPEUTIC RESULTS

SATISFIED CUSTOMERS — **REPEAT SALES**

PROFITS

Antiphlogistine is a good trade-builder
It pays to feature it

THE DENVER CHEMICAL MFG. CO.
12, CARLISLE ROAD, LONDON, N.W.9

2 New Profit Makers

LARGE-SCALE ADVERTISING ENSURES INCREASING DEMAND

Zam-Buk Medicinal Cream presents a new up-to-date skin treatment which can be confidently recommended to all customers who prefer a white, non-greasy, non-staining preparation which can be used anywhere at any time. Its formula combines soothing, healing and antiseptic medicaments of proved value.

Zamcones Suppositories are the improved treatment for piles. The emulsified base allows for rapid and complete absorption into the tissues, making the Zamcones more speedy in their action and more beneficial and far reaching in their effect.

Per Dozen	Display Terms	Pur. Tax
2/6 Zam-Buk Cream	16/-	6/-
2/6 Zamcones	16/-	6/-

URGENT REMINDER. The introductory offer of an additional 5% on the above terms to direct buyers on minimum orders of one dozen of either product will close on July 31st, 1948.



In bright, tasteful outers for counter display

C. E. FULFORD LIMITED, CARLTON HILL, LEEDS, 2

Goodwill Selling!

When you stock a line like HERBALENE, a rapid turnover is not only assured, but goodwill is gained. National advertising and the recommendations of satisfied users have created a permanent place on the market for this natural, non-habit forming herbal laxative. Agents wanted where not at present represented.

HERBALENE (Reg.)

1/6 and 2/6 per pkt. 3/8 per large tin. Retail prices.

LUSTY'S NATURAL PRODUCTS CO.

WESTCLIFF - ON - SEA : : ESSEX

ESTABLISHED 1793

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of 150 years' standing

Does not contain any Scheduled Poison

ROBERT BARKER & SON, LTD.

13 WESLEY ST., C. on M., MANCHESTER

MILLAMALT

Sole Manufacturers

The VITAMIN MALT FOOD

With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.)

JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN, London Dept.: 19 Brookside Rd. N

Compressed TABLET SERVICE

WHOLESALE & EXPORT

Clients' own material operated if desired. Reasonable estimates.

The DALES ASPIRIN AND TABLETING CO. Barrows Lane, STEETON, Yorks.



Whenever extra vitamin C is indicated, Ribena Blackcurrant Syrup can be safely recommended as an acceptable medium.

Ribena provides the natural vitamin C complete with its naturally occurring factors.

Ribena is stabilised, and standardised to contain not less than 20 mg. ascorbic acid per fl. ounce.

You should be able to obtain enough Ribena to meet the needs of all your priority customers—expectant and nursing mothers, infants and invalids.

In case of any difficulty please write to us.

H. W. CARTER & CO. LTD., THE OLD REFINERY, BRISTOL 2

Cox of Brighton

COX

MANUFACTURING CHEMISTS WITH OVER A CENTURY OF SPECIALIZED EXPERIENCE AND EXTENSIVE PRODUCTION FACILITIES

Manufactures include :—

PILLS & TABLETS
(BULK or PACKED)
SOLVELLÆ · CAPSULES
PHARMACEUTICALS
PACKED SPECIALITIES
PROPRIETARIES

COB

A method of Packaging being adopted everywhere by Pharmacists who are interested in building Sales for their products packed under their OWN exclusive Brand Mark in modern attractive style. An outstanding service that costs the Pharmacist NOTHING.

WRITE FOR FULL DETAILS

ARTHUR H. COX & Co. LTD.

BRIGHTON, 7, SUSSEX

CITRIC ACID
TARTARIC ACID • CREAM OF TARTAR
ROCHELLE SALTS • CALCIUM GLUCONATE
LITHIUM CHLORIDE • LITHIUM CARBONATE
LITHIUM HYDROXIDE

OF
GUARANTEED QUALITY

Kemball, Bishop
and Company Limited

ESTABLISHED 1870
MANUFACTURING CHEMISTS

Products under Development and Research
FUMARIC ACID • ITACONIC ACID
KOJIC ACID

CROWN CHEMICAL WORKS, THREE MILL LANE, BROMLEY-BY-BOW, LONDON, E.3, ENG.
Telephone: ADVANCE 1234 (6 lines) Telegrams: KEMBALL, LONDON, ENG.
CODES ABC 6th, Bentleys Private



Portrait of your biggest little Salesman this Summer

Thousands, particularly women, will buy insect repellents this season. Sell them 'Sketofax' Cream — effective *and* elegant. It is nationally advertised in leading women's magazines. Its striking display outer sells right from your counter ; and your order can qualify for a special bonus :

ONE FREE TUBE with every dozen (minimum bonus order three dozen tubes). Order now for summer-autumn sales. Retail price 1/4, plus 4d. purchase tax.

Special Bonus see *above*



'SKETOFAX' BRAND

Insect Repellent

Effective *and* elegant

BURROUGHS WELLCOME & CO.
(The Wellcome Foundation Ltd.)
183-193, EUSTON ROAD, LONDON, N.W.1.


SPOTLIGHT ON....
The new "JUNIOR" Lipstick
6 SPARKLING NEW COLOURS
ROYAL
RED WINE
DEMASK ROSE
PAGEANT RED
PINK TULIP
FATAL APPLE
Tryst
2/6
INC. TAX
by
Tryst
of REGENT STREET
All for immediate supply....
plus the lovely standard
Shades in the Tryst Range

SPECIAL DISPLAY OFFER



Get this *Wisdom* REGD. demonstrator display FREE

THE BLACK - AND - WHITE photograph above cannot do full justice to the new all-metal Wisdom display stand. Against its clean matt black finish, the colourful *Extra* brushes in their smart blue packs stand out in brilliant contrast. The specimen brushes at the bottom enable customers to test for themselves the textures available. This display is in fact a real sales tool. It not only shows brushes. It sells them.

The stand, together with three display brushes, will be supplied free of charge to every stockist ordering a parcel of three dozen Wisdom Extra. This includes 1 doz. Extra Hard, 1 doz. Hard, 1 doz. Medium texture. The total cost to you is £1.17.6d. plus 12s. 6d. purchase tax. The retail price of Wisdom Extra is 1s. 11d., showing a profit of 19s. on the parcel — a fraction over 50% on cost.

Order at once on the form below or through your usual wholesaler. This offer expires on August 15th.

ORDER FORM

Please supply through the wholesaler named on right..... special display parcel(s) containing 3 doz. Wisdom Extra (1 doz. Ex. Hard, 1 doz. Hard, 1 doz. Medium), 1 free display stand and 3 free display brushes. Price 37/6 (plus 12/6 purchase tax). I will use this display at least one month.

NAME & ADDRESS:

WHOLESALER:

OD

C

What's new

Goya's Travel size bottles of perfume are now on sale in England. For quite a time this 'in-between' size of really good perfume has been well known in overseas markets, and we think you will find it very much in demand here too. It costs only 7/6 a bottle and makes a perfect 'buy' for people who want to give a small but luxurious present; or those who like to use only the best perfume themselves, and want something larger than one of Goya's handbag phials. Goya's usual fragrances are available in the Travel size. The trade price is 36/- a dozen.

Goya

161 NEW BOND STREET LONDON W1

A SUPERIOR SKIN LOTIO

to sell at 2/2 per 3 oz. bottl

including Purchase Tax

ANAESTHETIC ANTISEPTIC

DERMAL LOTIO

(non greasy)

(Showcard available)

Suits women for their hands and for u after make-up. An excellent after-shav lotion for men.

Extra discounts on 3, 6 and 12 dozen, and a bonus on 12 dozen.

Telephone: BYRon 1440/1

Telegrams: Damancy Harr

DAMANCY & CO. LTD HARRO MIDD

ESTABLISHED 1890

Big news of something sma

NEW 10½d TRIAL SIZ

for KOKO Cream Shampo

Women will want it because they natura like to start something new in a small wa Remember these points about this successf always-asked-for-again shampoo:

1 **It's a Cream Shampoo, in a tube: a to for the hair, easy to use, enough for f shampoos in a full-size tube, and for o in a trial size.**

2 **It's advertised in a new way — as a c metic for the hair.**



TRADE TERMS	*Small Tube*	*Large Tu*
Wholesaler	4/11 per doz	16/8 per
Retailer	5/9 per doz	19/7 per
Purchase Tax	1/11 per doz	6/7 per
Retail Price	10½d. each	3/- each

Made only by

Koko-Maricopas Co. Ltd., 3 Fleet Lane, London, E.

Makers of the well-known Koko for the Ha

Now in Better Supply!



Pharmacists will welcome the information that a marked improvement in production now permits the removal of restrictions on supplies. Orders may now be placed without limitation on quantity, thus enabling chemists to meet the continually increasing demand for this popular antacid.

'Milk of Magnesia'

Regd.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3.

For Immediate Delivery

The Macaulay Range

Macaulay's Lung Syrup
Macaulay's Bronchial Tablets
The Bronchial Mixture for Diabetics
The Tonic Elixir

B.P. Chemicals A. & W.

Bicarbonate of Soda
Epsom Salts *Boracic Powder*
Boracic Crystals
Glauber Salts *Borax*
White Fullers Earth

Tablets

Retrodol *Aspirin*
Effervescent Sulphur Lime Tablets

Toilet Products

Fairtasy Face Powder
Fairtasy Lipstick

The Allcock Range

Ashley & Weeks Ltd. are Sole Distributors in Great Britain for:—
Scan Eye Lotion
Nailoid *Velvs* *Tubal*

ORDER FROM YOUR WHOLESALER OR DIRECT FROM:

Ashley & Weeks Limited

165 Mitcham Road, London, S.W.17 *Telephone: Balham 4416*

PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. **Mag. Carb. Pond.**
Mag. Oxide Levis. **Mag. Oxide Pond.**
Mag. Trisilicate.
Mag. Hydrate. **Mist. Mag. Hydrox.**

Supplied through all wholesalers by the sole manufacturers :

The WASHINGTON CHEMICAL CO. LTD.

A MEMBER OF THE TURNER & NEWALL ORGANISATION.

WASHINGTON
CO. DURHAM

London Office:
Everlte House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10

Back!

Vichy-Célestins has a ready sale not only as a pleasant table drink, but because of its medicinal properties. Over 40,000,000 bottles are sold annually throughout the world.



VICHY-CÉLESTINS

The World-Famous French Spa Water
Bottled as it flows from the Spring

★ *Sole Agents for the United Kingdom:*
Ingram & Royle Ltd.,
12, Thayer St., London W.1.,
also distributors of Contrexéville-Pavillon, Evian and Vittel.

Cussons

TOILET PREPARATIONS PRICE LIST

Including Purchase Tax reductions and complying with the Miscellaneous Goods (Maximum Prices) Order

Line No.	*Retail Selling Price*	*Description*	*Trade Price* DOZEN	*Purch. Tax* DOZEN
4098	1/4	Whitecross Baby Powder...	8/9	2/10¼
4433	2/7	Imperial Leather Toilet Powder	12/6	12/2¼
4435	2/7	Apple Blossom Toilet Powder	12/6	12/2¼
4438	5/6	Linden Blossom Toilet Powder	26/8	26/-
4440	4/9	Apple Blossom Face Powder (shades as 5394)...	23/-	22/5¼
5386	3/7	Apple Blossom Foundation Cream	17/4	16/10¾
5387	2/4	Imperial Leather Solid Brilliantine	11/3	10/11¾
5394	7/2½	Lipsticks in metal case (Rose Royale, Tudor Rose, Rose Claire, Musk Rose and Natal Rose)	35/-	34/1½
5399	4/4	Mascara (Blue, Black and Brown)	21/-	20/5¾
5400	3/4	Imperial Leather Cologne (Small)	16/3	15/10¼
5401	5/8	Imperial Leather Cologne (Large)	27/6	26/9¾
5410	3/7	Lipstick Refills (same shades as 5394)	17/4	16/10¾
5415	2/2	Imperial Leather Brilliantine...	10/6	10/3
5418	4/4	Imperial Leather Bath Essence	21/-	20/5¾
5430	2/7	Imperial Leather Bath Essence	12/6	12/2¼

CUSSONS SONS & CO. LTD, KERSAL VALE, MANCHESTER 7

London Office & Showrooms:

84 BROOK STREET, GROSVENOR SQUARE, W.1

Banishes Scurf & Dandruff



RETAIL PRICE 2'6 INC. TAX
TRADE PRICE 15'-
ONE DOZEN BOTTLES
PLUS TAX - ONE THIRD

New attractive
DISPLAY STANDS
supplied !

DR HARR'S 6·8·6·B SCURF & DANDRUFF LOTION

PLEASE NOTE

BRONCHOVYDRIN ASTHMA INHALANT

Is now exempt from

PURCHASE TAX

Revised Retail Prices

15 gms. 8/8

120 gms. 60/9

BRONCHOVYDRIN (1945) LTD.

WORLD-FAMOUS

AMERICAN TOILET PREPARATIONS

★ *FOR ALL HIGH-CLASS CHEMISTS* ★

JERGENS LOTION

HONEY & ALMOND FRAGRANCE
Furnishes the skin with beautifying softening moisture. Contains two effective ingredient many doctors use. Useful also as a lovel powder base; to soothe sun-dried and wind dried skin. 6½ fl. oz. 8/

HINDS HONEY AND ALMOND CREAM
For rough, dry or chapped skin. Extr creamy for use on hands and face. 4½ fl. oz. 8/

LIBERAL DISCOUNTS TO THE TRADE ON APPLICATION

M. LAWTON
(GOVT. CONTRACTOR)
(Dept. CD) 121/123 Bury New Road Manchester, 8

MANESTY

TABLET MAKING MACHINERY



MANESTY F TABLET MACHINE — OUTPUT 90 PER MIN.

FOR TABLETS UP TO ¾ DIAM.



MANESTY No1 TABLET MACHINE — OUTPUT 90 PER MIN.

FOR TABLETS UP TO ½" DIAM.



MANESTY E TABLET MACHINE — OUTPUT 90-100 PER MIN

FOR TABLETS UP TO ½" DIAM.



MANESTY HAND COMPACT PRESS — OUTPUT 2000 COMPACTS PER DAY



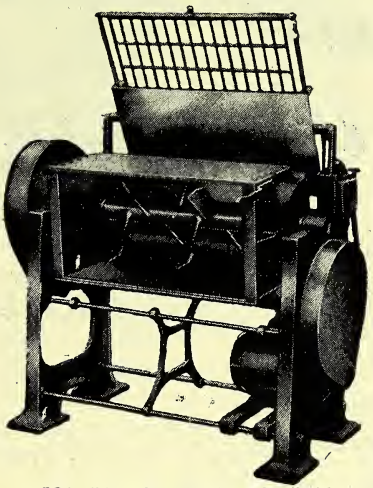
MANESTY COPPER COATING PAN — STANDARD SIZE 30" DIAM.



MANESTY B.B.3 ROTARY TABLET MACHINE — OUTPUT 1000-1500 PER MIN.

FOR TABLETS UP TO ½" DIAM.

MANESTY MIXER



FOR DRY OR MOIST POWDERS
IDEAL FOR TABLET MAKING



MANESTY B3 ROTARY TABLET MACHINE — OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO ½" DIAM.



MANESTY No2 TABLET MACHINE — OUTPUT 55-220 PER MIN.

FOR TABLETS UP TO 1½ DIAM.



MANESTY D3 ROTARY TABLET MACHINE — OUTPUT 300-350 PER MIN.

FOR TABLETS UP TO 1" DIAM.



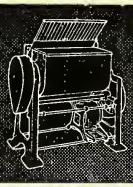
MANESTY R.S.1 ROTARY TABLET MACHINE — OUTPUT 168-336 PER MIN.

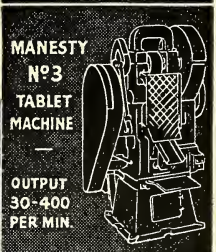
FOR TABLETS UP TO 1⅜ DIAM.



MANESTY OSCILLATING GRANULATOR — OUTPUT 150-224 LBS. PER HOUR

MANESTY MIXER — CAPACITY 100 LBS. OF POWDER





MANESTY No3 TABLET MACHINE — OUTPUT 30-400 PER MIN.

FOR TABLETS UP TO 2¼" DIAM.

MANESTY MACHINES LIMITED

5 SPEKE HALL ROAD, LIVERPOOL, 19

TELEPHONE: HUNTS CROSS 1321 TELEGRAMS: MANESTY, LIVERPOOL



DT3•

THE most popular ANTI-MIDGE cream

DIMP is rapidly establishing itself as the most popular Anti-Midge Cream. Following on last year's successful season, DIMP is now reappearing with a bright new display carton, attractive pictorial showcards and window bills in colour.

Display DIMP and benefit by the extra sales that greatly increased National Advertising will bring you.

DIMP, a pure white, odourless, non-greasy cream, contains 50% dimethylphthalate.

SCOTT & TURNER Ltd
NEWCASTLE-UPON-TYNE

Announcement by

CLEMMEL Ltd.

and

FREDK. GODFREY

(WHOLESALE) LTD.



Messrs. **JOHN KNOX**
(Stoke-on-Trent) LTD.
have been appointed
SOLE DISTRIBUTORS
Home and Export for

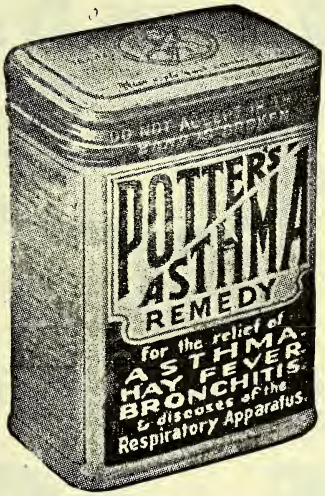
CLEMMEL high-quality, popular price Pe
fumes, Lipsticks, Brilliantines, Ha
Cream, Vanishing Cream, Night Crea
Leg Make-Up, etc.
and

FREDK. GODFREY'S well-established a
widely advertised preparations :—

"RENAIR" Hair Tonic.
"RENAIR" Hair Lotions.
"RENAIR" Pomade.
"RENAIR" Dandruff Lotion.
"RENUKLOR" Natural Colour
Restor
"FOLLEX" Shampoo (Sachets).

Customers, old and new, are requested address orders and enquiries direct Messrs. John Knox (Stoke-on-Trent) Lt King Street, Fenton, Stoke-on-Trent.

POTTER'S
ASTHMA REMEDY



Revised "Budget" Prices
Price 2/5 per Tin (inc. tax)
Wholesale 18/- per Doz., plus 6/- per Doz. Tax
Packed in half dozens

Well advertised and world famous
A sound selling line for every Chemist

POTTER & CLARKE LTD

60-64 Artillery Lane, LONDON, E.1.
Telephone: BIShopsgate 4761
and
77 Dantzic Street, MANCHESTER 4.
Telephone: BLAckfriars 8734

As an Antacid
or in febrile conditions
Invalid
Lembar
justifies the doctor's highest recommendation
Available in limited quantities

Soluble extract of
Barley ... 7.4%
Sugar ... 23.7%
Glucose ... 10.4%
Lemon Juice 37.0%

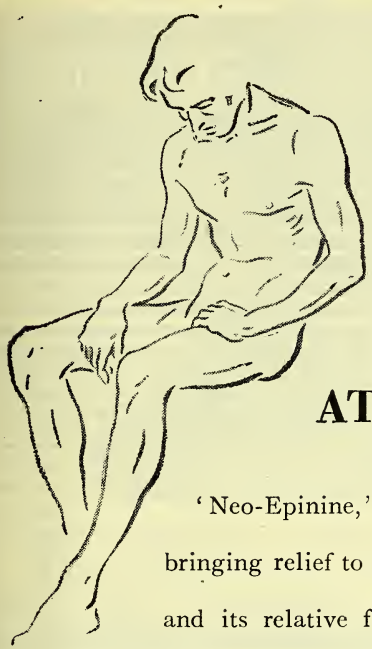
Plus Flavouring and permitted preservative

The above percentages are expressed in weight per given volume

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18

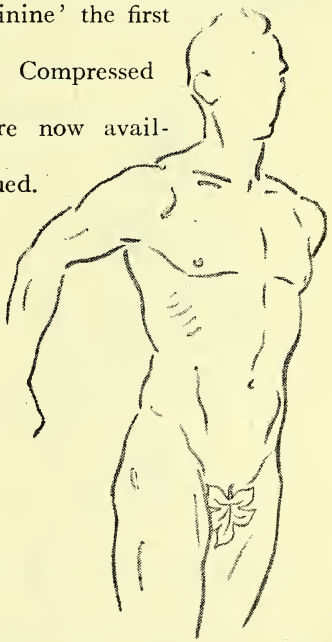
THE
New Wonder Cream
NAIL VARNISH REMOVER
SOFF
MANICURE CREAM
RECOMMENDED BY LEADING BEAUTY EDITORS
TRIPLE ACTION
● REMOVES VARNISH ●
● SOFTENS CUTICLES ●
● NOURISHES NAILS ●
PREVENTING—DRYNESS, CRACKING BRITTLENESS
Delicately perfumed—No unpleasant smell
CERTAIN—QUICK-SELLING—REPEAT LINE
"SOFF" a new product, retailing at 2/9. Popular price, popular line, every woman using nail varnish is a buyer. ORDER EARLY.
Distributed by
NEWBERY & PHILLIPS Ltd
VICTORIA HOUSE SOUTHAMPTON ROW LONDON WC
Manufactured by C. DRAPER & CO., Ltd. Twyford, Berks

INTRODUCING
dip
PERMANENT PLASTIC STARCH
Chemists! Be ready to cope with the demand for ***dip*** — the permanent plastic starch with a sure fire sales appeal! ***dip*** starched ***stays starched.*** Articles iron up stiff and fresh. Supported by extensive advertising; ***dip's*** attractive display stand instantly appeals. Available free.
Retail Price **2/3 a bottle.**
AVAILABLE THROUGH FOREMOST WHOLESALERS



AT THE FIRST GASP

'Neo-Epinine,' the new treatment for asthma, will be bringing relief to many of your customers. Its effectiveness and its relative freedom from the side-effects caused by adrenaline and ephedrine will make 'Neo-Epinine' the first choice of physician and asthmatic patient. Compressed products for placing beneath the tongue are now available; a spray solution will shortly be issued.



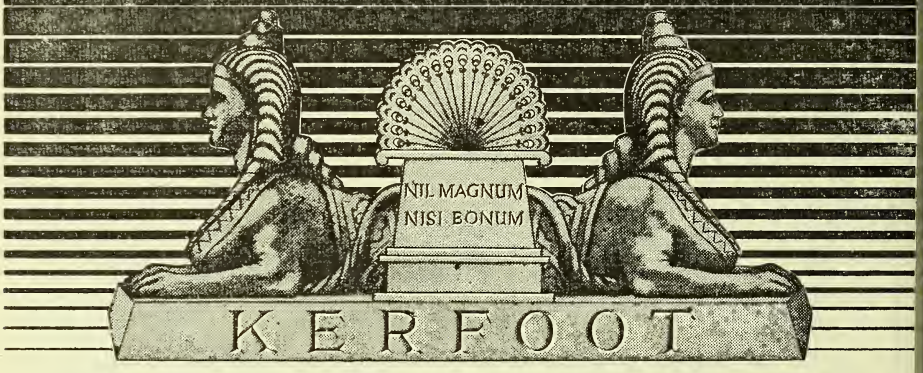
'NEO-EPININE'
BRAND

ISOPROPYL *nor* ADRENALINE SULPHATE

Compressed products for sublingual administration, each containing 20 mgm.; in bottles of 25, 3s. 6d., and 100, 12s. 9d. (Exempt from Purchase Tax.) Subject to usual trade discount.

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

For BACTERIOLOGICAL SUGARS



ARABINOSE · CELLOBIOSE · DEXTRINE (Prep. by precipitation) · DEXTROSE (Cryst. Anhydrous)
DULCITOL · GALACTOSE · INOSITOL · INULIN · LACTOSE · LÆVULOSE · MALTOSE
MANNITOL · RAFFINOSE · RHAMNOSE · SACCHAROSE · SORBITOL · SORBOSE · XYLOSE

THOMAS KERFOOT & CO., LTD. VALE of BARDSLEY, LANCASHIRE

K23



BOTH *Quality and Price*

make Silcot Sanitary Towels an excellent selling line

Women who use Silcot towels value their two outstanding features, softness and safety.

The soft cotton wool used in the towels, and the silk knitted covers give them the fullest comfort; the stitched loops give them complete security.

PRICES

The new prices of Silcot towels, as recently announced, are:—

Size 0	**15/9**	**Trade per doz. pkts.**	**1/9**	**Retail per pkt.**
1	18/–	,, ,,	2/–	,, ,,
2	22/6	,, ,,	2/6	,, ,,
3	27/9	,, ,,	3/1	,, ,,
4	30/–	,, ,,	3/4	,, ,,

Vensilla Soluble Towels, size 1, with loops, sell at 14/6 per dozen packets wholesale, and 1/7½ per packet retail. Silcoc all-elastic adjustable Sanitary Belts, 12/6 per dozen, plus 4/3 Purchase Tax. Retail price, 1/11 each.

SILCOT SANITARY TOWELS

MACDONALD AND SON LTD., DAWSON STREET, SALFORD, MANCHESTER,

The
CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
JULY 10, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."
Single copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3568 Volume CL

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NEWS OF THE WEEK

International Pharmaceutical Federation.—Arrangements are being made for a meeting of the International Pharmaceutical Federation to be held in Brighton on August 29 and 30, immediately before the British Pharmaceutical Conference.

British Industries Fair, 1949.—Applications for space at the British Industries Fair, 1949, which is to be held in London and Birmingham, May 2-13, should be sent to the Export Promotion Department, Board of Trade, 27 Old Queen Street, London, S.W.1, not later than August 7.

Scientific and Cultural Pact.—A cultural convention between Britain and Holland was signed at The Hague on July 7 to promote understanding in scientific and other fields in the two countries. The text of the pact outlines proposals for exchange visits between universities, and between research, professional and other workers.

Pest Control in the Commonwealth.—Latest developments in insect pest control are to be discussed at the fifth Commonwealth Entomological Conference which is to commence in London on July 22. Papers are to be read on the mode of action of new insecticides, application of insecticide from the air, insect pests in stored products, and the control of tsetse flies, locusts and grasshoppers.

Decontrol of Toilet Preparations.—The Toilet Preparations and Perfumery Manufacturers' Federation of Great Britain points out that decontrol of toilet preparations (see *C. & D.*, July 3, p. 1) is not accompanied by revocation of existing controls on the use of raw materials. Returns of sales during January 1-June 30, which would have been due on or after June 30, are not now required.

Scottish Chemists and N.H.S.—Scottish chemists have been advised by the Pharmaceutical Standing Committee (Scotland) to sign National Health Service contracts subject to any improvement in terms which may result from an application for revision submitted on July 5. If the Scottish Whitley Council which is to be set up is unable to reach agreement, the matter is to be submitted to arbitration.

Insurance for Doctors and Dentists.—Under the National Insurance and Industrial Injuries schemes, announces the Ministry of National Insurance, doctors and dentists on the lists of Executive Councils under the National Health Service or in private practice are insurable as self-employed persons (Class 2). Those engaged full-time in hospitals or similar institutions or under local or public authorities are insurable as employed persons (Class 1).

Census Advisory Committee. — The President of the Board of Trade has set up a committee to advise him on the preparation of forms for the first national census of the distributive and service trades to be taken in 1950. Among members of the committee, which is under the chairmanship of Mr. J. Stafford (Director of Statistics, Board of Trade), are—in a personal capacity—Messrs. E. R. Walker (Boots, Ltd.) and J. D. Hiscock (Union of Shop, Distributive and Allied Workers).

New System of Ciphering Compounds.—A paper describing a linear system of ciphering chemical compounds, first read before the Birmingham Section of the Royal Institute of Chemistry in October 1947, has been published by the Institute as a forty-seven page booklet. The authors, Messrs. Gordon, Kendall, and Davison, claim that the system can be learned by a chemist in about an hour, and that it can be mastered even by interested non-chemists, especially librarians.

N.H.S. " Fair Wages Clause."—Amendments to the National Health Service (General Medical and Pharmaceutical Services) Regulations, 1948, effected by S.I., 1948, No. 1448, include the following addition to the section dealing with terms of service for chemists:—" A chemist shall, in respect of the categories of staff whose wages and conditions of work are approved by the National Joint Industrial Council for Retail Pharmacy, pay rates of wages and observe conditions not less favourable than those for the time being so approved."

Presentations on Retirement.—To mark her retirement from control of the National Pharmaceutical Union's Central Checking Bureau, a wireless set was presented to Miss D. Braithwaite recently by the Executive and secretary of the N.P.U. A reading lamp and a picnic basket were presented by her former staff colleagues. Mr. G. A. Mallinson (N.P.U. secretary) writes:—" Everybody on the staff of the N.P.U. regrets that ill-health has caused Miss Braithwaite to retire but all feel that freedom from the worry and work will soon enable her to enjoy her retirement."

Medicines for Private Patients. — The annual representative meeting of the British Medical Association at Cambridge on June 25 unanimously approved a resolution that patients who exercised their right to obtain medical advice outside the National Health Service should not have to forgo the benefits of the pharmaceutical service. The chairman of the B.M.A. Council (Dr. H. Guy Dain), replying to members who had spoken in support of the motion, said the attitude of the Ministry was that the pharmaceutical service was part of the general practitioner and consultant service, and was to be available to the patient only through the doctor. The Ministry was, however, considering a method whereby persons who wished to remain private patients might receive supplies of expensive drugs such as insulin from hospitals.

" Open Day " at Teddington.—At an " Open Day " held recently at the chemical research laboratory of the Department of Scientific and Industrial Research, Teddington, Middlesex, Press visitors were shown displays illustrating the scope of the laboratory's work. Metal-corrosion tests were in progress, and there were exhibits of organic inhibitors of corrosion, solvent extractors, *p*H meters, absorptiometers, polarographs, spectrographs, fluorimeters, apparatus for counting alpha and beta particles and for measuring radon, ion-exchange resins, synthetic adhesives, semi-scale apparatus for preparation of plastics and fractional distillation equipment for coal tar chemicals. Other displays illustrated the conversion of phenols into aromatic amines, the preparation and investigation of organo-silicon compounds, trace apparatus, DDT formulations, and the preferential deposition of insecticides from emulsions.

LOCAL NEWS

London Company's Outing.—The directors and staff of Kaylene, Ltd., London, N.W.2, held an outing on June 1 travelling by coach to Margate. Sir W. Arbuthnot Lane (managing director), presided at lunch and " The company " was proposed by Mr. W. Collins.

Hull Golf Competition.—In the Hull Chemists' Association annual golf competition for the Lofthouse cup at Kirk Ella on July 1, the winner was Mr. W. Naylor, with Mr. J. Skinner as runner-up. The players and guests were entertained

o lunch and tea by Lofthouse & Saltmer, Ltd., donors of the cup.

Sunderland Pharmaceutical Committee.—The following officers were appointed at meeting of the newly-constituted Sunderand Pharmaceutical Committee on July : *Chairman,* Mr. H. Wardropper; *Treaurer,* Mr. W. S. Watson; *Secretary,* Mr. . R. Riley, 55 The Green, Southwick, underland.

Wallasey Officers. — The following fficers of the Wallasey Pharmacists' Assoiation have recently been appointed:— *resident,* Mr. Harold S. Quayle; *Vice-resident,* Mr. S. Hudson; *Secretary,* Mr. . R. Allen, 64 Martins Lane, Liscard, Wallasey; *Treasurer,* Mr. P. N. Thompson; *ocial Secretary,* Mr. H. T. Spence.

Coventry N.H.S. Critics.—At a meetng of the Coventry Branch of the National Pharmaceutical Union on June 23, resolution passed unanimously expressed entire dissatisfaction" with the terms of emuneration negotiated with the Ministry f Health. Whilst accepting service, says he resolution, the branch desires that very effort shall be made in the future to ecure a just and adequate reward for the hemists' professional services.

Portsmouth Pharmaceutical Committee.—The following have been elected to the ew Portsmouth Pharmaceutical Committee: Messrs. A. G. Bradburn, M. L. Gregory, P. G. Howes, E. B. Johnson, T. A. ohnson and R. G. Tremlett (private contractors' representatives), A. E. Moor (coperative society's representative), F. Woodcock (company chemists' representative), K. W. Ellery (hospital pharmacists' epresentative), and W. R. D. Voke (emloyee representative).

York Chemists Protest. — A resolution arried unanimously at a meeting of the York Chemists' Association on June 24 protested against the testing of dispensing done by pharmacists while other dispenng was not tested. The resolution also protested at the terms offered by the Minisry of Health for National Health Service dispensing, but advised members to accept. It was hoped that better terms would eventually be negotiated by the Whitley Council.

Birmingham v. Manchester Golf. — In the annual golf match between Birmingham and Manchester chemists held at Hawkestone Park on June 18, seventeen players from each side competed for the B.D.H. challenge cup. Twenty-two cards were below the par for the course, and Birmingham's score was an aggregate of 1138 against 1255 by Manchester. The best eight cards of each side, which count for the trophy, gave Manchester the victory by one stroke, 550-551. The Lilo challenge cup for the best individual score brought a tie with 65. In a replay of the first nine holes, Mr. J. L. Sloan, Birmingham, gained the trophy by four strokes from Mr. B. Gibbs, Manchester.

IRISH NEWS

Dublin Wage Recommendation. — Wage increases for Dublin drug trade employees, recommended recently by the Dublin Labour Court, have been accepted by both employers' and employees' organisations. The increases are retrospective to the first pay day in May.

Eire Society's Examinations.—The Eire Minister for Education (General Mulcahy), replying to a question in the Dail Eireann recently, said he did not intend to direct the Council of Education, which he was proposing to establish, to consider the need for state supervision over the examinations conducted by the Pharmaceutical Society of Ireland.

Eire Cycle Outing.—Some seventy chemists and students took part recently in the annual outing by cycle from Dublin to Lucan of the Eire Pharmaceutical Chemists' and Students' Social Committee. At Lucan there were sporting events followed by tea and a dance. Prizes were presented by Lieutenant Seamus Fox, who said plans for establishing a club for pharmaceutical chemists and students were developing rapidly.

OVERSEAS NEWS

Trade with Korea.—Arrangements have been made for trade between Britain and South Korea to be conducted in sterling instead of, as hitherto, in U.S. dollars. It will now be possible, states the Board of Trade, to relax the criteria of essentiality which formerly applied to imports from Korea.

New Microbiological Institute. — A Colonial Microbiological Research Institute was opened at Port of Spain, Trinidad, on July 5. The new Institute is to provide a centre for fundamental microbiological research in the tropics and post-graduate training, and it will assist agricultural and other industries in tropical areas in improving their products.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

An extreme shortage of industrial overalls was brought to the notice of the Board of Trade on June 29 by Mr. V. J. Collins, who asked whether the Minister would arrange for an increase in the allocation of drill cloth for the making of this clothing for the home market. Mr. J. W. Belcher (Parliamentary Secretary) replied that he had no evidence of an extreme shortage of industrial overalls and protective clothing, though he was aware that supplies of these goods were not so plentiful as supplies of many other garments. Production of cotton goods as a whole for the home market was limited by the requirements of export business, but the manufacture of cloth for industrial and protective clothing was being maintained.

Alternative to Purchase Tax

The Chancellor of the Exchequer was asked by Sir William Darling on June 29 whether he would institute an inquiry into the relative efficiency of a turnover tax and the present purchase tax for collecting indirect taxation. Sir Stafford Cripps replied that the alternative had been considered when purchase tax was introduced, but that it had been decided, in consultation with trade associations, that the present purchase system was the more practicable and convenient method.

Barley Sugar on Prescription

Colonel Stoddart-Scott asked the Minister of Food on June 30 to what extent the decision of some pharmacists to reduce by 50 per cent. the quantity of glucose barley sugar supplied against medical prescription was due to the decision of his Ministry not to replace raw material from which glucose barley sugar was made. Dr. Edith Summerskill (Parliamentary Secretary) replied: "There are ample supplies of glucose barley sugar available to meet all demands against medical prescriptions, although it may not always be possible to meet the demand for the product of a particular manufacturer."

Export Guarantees

The Export Guarantees Bill received a second reading in the House of Commons on July 1. Its purpose is to extend the amount of liability which the Export Credits Guarantee Department could assume from £200 million to £300 million. Introducing the Bill, Mr. Harold Wilson (President of the Board of Trade) said the service was much in demand by British exporters. Guarantees under the Export Guarantees Acts were given subject to the Treasury's consent and after consultation with an advisory council. There had been arrangements for many years whereby traders could protect themselves against losses in overseas trading by a Government guarantee offered through the services of the Department. Policies on consumer goods normally covered the whole of an exporter's overseas trade or a reasonable share of it for twelve months ahead. The Bill was a stop-gap measure to ensure that the guarantees and the work of the Department should not have to decrease or be restricted because there were limits to the liability it was permitted to shoulder. The powers under the Act were at present being reviewed, and if it was found necessary, the Government would have no hesitation in introducing fresh legislation in a future Session, with the object of improving still further the service available to exporters and of encouraging the maximum development of both visible and invisible export trade. The schemes were entirely voluntary, and traders were making more and more use of the Department. There were certain fields in which it might be thought that private trade would want to enter, and his Department was examining that and possible services that might be provided.

SECOND ATOMIC PILE

Britain's second atomic pile (the "Harwell" pile) installed at the Ministry of Supply's Atomic Energy Research Establishment began operating at low power on July 3. When working at its rated output of 6,000 kw. the pile should be able to produce all the artificial radioactive isotopes required in this country by medical and other research workers. The new pile (see diagram, *C. & D.*, 1947.I.14) consists of several hundred tons of graphite blocks in which uranium rods enclosed in aluminium are arranged in lattice-form channels. Cooling air is drawn through the channels by electrically-driven exhausters. The pile is surrounded by a concrete shield several feet thick, which is pierced by holes through which access may be gained to the strong fluxes of neutrons in the interior of the pile.

TOPICAL REFLECTIONS

Enter N.H.S.

Your helpful articles on the National Health Service (pp. 15, 18-31) bring to mind the assistance rendered to N.H.I. chemist-contractors and their dispensers in your pages from 1912 onward. Notwithstanding your restricted space you are giving the same kind of assistance now; and journalists who read your issue of July 3 must have admired the skill shown in compression. We are looking to you for the essential facts of the service, and shall not expect any trimmings. Mr. A. E. Bailey's frank and comprehensive survey of the National Health Insurance Service and the six pages that follow it render it unnecessary for me to add any reminiscences on the same lines. A brief note on the outlook for panel chemists may, however, be of service. My view expressed a fortnight ago remains unchanged. The terms accepted for chemists in England and Wales are not satisfactory, and it is probable that little experience of the scheme will be needed before an effort is set on foot to have them amended. Dispensers' salaries will absorb most, if not all, of the revenue derived from panel contracts. And there is another consideration. The habits of prescribers may change so much and so soon that elaborate additions to dispensing departments may prove to be wasteful. It is conceivable that among the early developments in therapeutics will be methods of treatment necessitating large-scale production combined with delivery to patients' houses for immediate administration by a nurse or other clinical assistant, by-passing pharmacies.

A Wider View

A wider view than that indicated in the previous paragraph is called for. As good citizens, pharmacists desire to see the whole service as well integrated as it can be. A case in point is the relation between hospitals and health centres, when the centres get going. Obviously the two kinds of institution will have to be fitted into each other's working and into that of the general system. It was announced recently that the Nuffield Provincial Hospitals Trust and the University of Bristol are jointly organising an inquiry concerning the functions and the designing of hospitals. A research team and a panel of experts are collaborating in the work. Pharmacists have a twofold interest in this investigation. In the first place, they (and especially hospital pharmacists) will feel it incumbent on them to claim a suitable place for the dispensary in every new or rebuilt hospital—suitable in position, spacing, lighting and so forth. Secondly, they (and especially those who are members of boards of hospital governors) will wish to ensure that every hospital is appropriately related to the needs of its locality. A health centre, wherever set up, cannot take the place of a hospital, though it may and should be a useful adjunct. A hospital must focus the medical, surgical and nursing resources of its area so effectively as to be the unchallenged centre of up-to-date treatment; and to this end all that engineering and other sciences can suggest should be contributed.

N.(W.)F. Changes

Criticism, without being unduly captious, may submit that some explanation of the reason or reasons for changes just announced in the National (War) Formulary, 1947 (p. 13) is due to those who use the book. During the war we submitted, willingly for the most part, to the issue of six new Addenda to the British Pharmacopœia, bringing the number of these Addenda to seven. We also submitted to the accumulation of an equal number of Supplements to the British Pharmaceutical Codex. The National War Formulary, first published in 1941, reached its second edition in 1944 and its third last year. Adaptation of prescribing and dispensing to frequent changes in the stress of war was accepted as an inevitable inconvenience; but to have similar changes thrust upon us without much obvious gain in compatibility, economy, elegance or any other virtue is not acceptable. If a sufficient explanation of these "amendments," as they are called is available, prescribers and dispensers are entitled to it. Writing about a year ago (*C. & D.*, 1947.I.5) on the contents of the third edition of N.(W.)F., I hinted with exemplary mildness that some of the alterations then made in existing formulas were rather fussy. With the deletion of "rather," the remark will serve here. Are we to understand that these new formulas are an instalment of the fourth edition of the book? Or will they in turn be superseded by small variations in strength, colouring, flavouring, total volume to be dispensed, or all of these factors? ***Xrayser***

COMPANY NEWS

METAL BOX CO., OVERSEAS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of containers, etc. First directors are to be appointed. R.O.: The Langham, Portland Place, London, W.1.

GRAHAM BOWEN, LTD. (P.C.).—Capital £3,000. To carry on the business of chemists, etc. Graham R. Bowen, M.P.S., and Stanley G. Court, M.P.S., directors. R.O.: 73 Oxford Street, Whitstable.

R. H. BAKER (MARLBOROUGH), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist carried on at 133 High Street, Marlborough, Wilts. Richard H. Baker, M.P.S., and Eileen G. Baker, directors. R.O.: 233 High Street, Poole.

LITTLEJOHN (MIDLANDS), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of inks, colours and chemicals, etc. Sidney R. Littlejohn, Kenward, Wolsey Road, East Molesey, Surrey, Harry Herron, Arthur Cooper and Ernest B. Graham, directors.

BROOKS PHARMACEUTICALS, LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of, and dealers in, chemicals, drugs, etc. Sydney G. Brooks, Joseph L. Brooks and Daniel Brooks, directors. R.O.: 882 High Road, Finchley, London, N.3.

HENRY W. PEABODY (INDUSTRIAL), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of detergents, pharmaceutical preparations, etc. Robert A. G. Tilney, Carlile H. Benmore, Neil F. Tingle and Alan F. Robertson, directors. R.O.: 16 Eastcheap, London, E.C.3.

GEORGE WILSON (LAUNCESTON), LTD. (P.C.).—Capital £3,000. To acquire the business of a chemist and druggist carried on by Winifred M. Wilson at 4 High Street, Launceston, as "George Wilson." Winifred M. Wilson, George D. Wilson, Jean M. Wilson and Dorothy I. Crowe, Ph.C., directors.

THOMAS HALE, LTD. (P.C.).—Capital £8,000. To acquire the business of chemists and druggists, etc., carried on by the personal representative of Thomas Hale, deceased, at 61 High Town Road, and 400 Hitchin Road, Luton. Hilda M. Hale and Frederick G. Horne, directors. R.O.: 25 Cardiff Road, Luton.

KINGSLEY CHEMICALS, LTD. (P.C.).—Capital £2,000. To acquire the business of manufacturers of, and dealers in, soaps and toilet preparations carried on as "Lassie Products." Jack Whymant, George T. E. Holmes, Harry C. May and W. C. Briggs, directors. R.O.: 26-28 Gregory Street, Northampton.

WELLCOME FOUNDATION, LTD.—Mr. T. R. G. Bennett, chairman, has resigned from the company. Mr. H. E. Sier, the deputy chairman, has been elected chairman in his place.

THE BRITISH DRUG HOUSES, LTD.—Dr. Francis H. Carr retired from the chairmanship of the company on June 30, but is retaining his seat on the board. Mr. Geoffrey Eley has succeeded him as chairman.

A. J. WHITE, LTD.—Net profit for the year ended March 31 amounted to £73,527, against £73,378. A final dividend is recommended of 7½ per cent., making 12½ per cent. for the year, as in 1947. Mr. S. H. Fawell, the retiring director, offers himself for re-election.

BEECHAM GROUP, LTD.—Trading profit of the group for the year ended March 31 is £2,370,181, against £2,688,522 in 1947. Taxation absorbs £1,277,930, compared with £1,751,490. The dividend for the year on the deferred shares is maintained at 40 per cent. by a final dividend of 4 per cent. The carry forward will be £448,977 compared with £410,612 in 1947.

LEGAL REPORTS

Dealings in Film. — At Londonderry Petty Sessions on June 28, a fine of £10 was imposed on James Desmond McCafferty, Strand Road, Londonderry, who pleaded guilty to dealing in fifty spools of camera film with intent to defraud the Government of purchase tax and also with evasion of Customs duty. A solicitor for the defendant said there was no question of black market activities. The films had been bought in Eire at controlled price and sold at controlled price during the period when films were in short supply.

Drink Described as "Cocktail." — At Wallasey, on June 30, James Peter Forrester, soft drink manufacturer, The Tower Mill Lane, Rainhill, Lancs, was fined £25 with £8 1s. costs, for unlawfully causing Frank Ward Vernon to sell, in December 1947, liquor described as a cocktail, and known as "No. 10" cocktail, which did not contain at least 40 per cent. proof spirit. The magistrates' clerk said the case was a sequel to one heard by the Wallasey magistrates on February 11 and dismissed. Following that decision the prosecution had applied to the justices to state a case for the opinion of the High Court. The case stated had been considered by the Divisional Court, from which there was now a direction that the case should be found proved against Forrester. A detective-inspector said that Forrester had a long list of similar convictions dating from 1942 and involving nearly £300 in fines.

BUSINESS CHANGES

S. SIGAL & CO., LTD., manufacturing chemists, London, E.C.2, have appointed Mr. G. Smyth, M.P.S., 2 Galwally Park, Ormeau Road, Belfast, their sole agent for Northern Ireland.

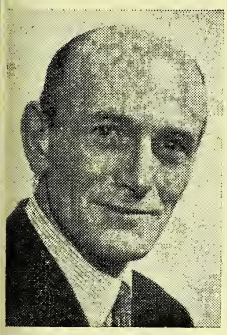
MR. THOMAS REID, M.P.S., has acquired the pharmacy and optical business at 169 Dunstable Road, Luton, Beds, formerly carried on by Mr. A. G. Pratt. Mr. Reid is a member of the Pharmaceutical Society's Council and for eleven years has been a manager for Savory & Moore, Ltd., at Oxford, Birmingham and London.

PERSONALITIES

Alderman J. F. Costello, M.P.S.I., has been re-elected mayor of Galway for the twelfth successive year.

Mr. Archibald Robertson, J.P., M.P.S., has been installed president of Hamilton Rotary Club for the year.

Mr. A. McGuckin, M.P.S., who has been appointed president of the Newcastle and Northumberland Branch of the Pharmaceutical Society, is managing director of Mawson & Proctor, Ltd., manufacturing and dispensing chemists, etc., Newcastle-on-Tyne. He was elected to the committee of the Branch in 1945, and in 1947 served as vice-president. He first joined Mawson & Proctor, Ltd., in 1927 as an apprentice. After qualifying in 1932 from the Sunderland Technical College he was appointed dispenser to the company, and in 1935 was promoted to laboratory manager. Two years later he was appointed general manager, and 1940 managing director. Among Mr. McGuckin's other interests are photography and mountaineering. He is a past-president of the Newcastle-on-Tyne Photographic Society.



Mr. R. W. Brownlow, M.P.S., J.P., Melton Mowbray, Leics, celebrated his golden wedding on July 6. Mr. Brownlow qualified in 1895 and commenced business in Melton Mowbray the same year. For many years he served as chairman of the local urban district council. He is the present chairman of the local bench of magistrates, governor of the local grammar school, and chairman of the memorial hospital. He has two pharmacist sons: Mr. J. E. Brownlow, M.P.S., who has taken over his father's business at 6 Cheapside, Melton Mowbray, and Mr. A. F. Brownlow, M.P.S., who is in business at 12 Bridge Street, Stratford-on-Avon.

Mr. Joseph Wright, Ph.C., who has been appointed superintendent of the National Health Service and information departments, of the National Pharmaceutical Union was apprenticed to J. H. Lowe & Son, Ltd., 86 Promenade, Blackpool, Lancs, and later served with Boots, Ltd., in the West End of London, and Carshalton, Surrey, qualifying as a chemist and druggist in 1941. In 1942 he joined the Royal Air Force, and was released in 1946 with the rank of Flight-Lieutenant. After further retail experience during that year he qualified as a pharmaceutical chemist in 1947 and later served as assistant pharmacist in the pharmaceutical section of the Ministry of Health.

Mr. F. C. Bentley, M.P.S., managing director of Allen & Neale (Chemists), Ltd., King's Lynn, Norfolk, has undergone an operation and is temporarily unable to take an active part in business or as secretary for the King's Lynn Branch of the National Pharmaceutical Union.

Mrs. B. Dove, M.P.S., who has been elected for a second term as chairman of the Sheffield Branch of the National Association of Women Pharmacists, took an active part during 1947 in the formation of the Branch. As Miss B. Ritchings, she qualified from Manchester University in 1929. Afterwards, until 1944, she managed a number of retail pharmacies in Sheffield, and in 1945 set up in business on her own account at The Ranmoor Pharmacy, 382 Fulwood Road, Ranmoor, Sheffield, 10. Mrs. Dove married in 1940.



Mr. R. Gibson, M.P.S., who was recently elected president of the Durham Branch of the Pharmaceutical Society, has been (except for a period of war service) a manager with Timothy Whites & Taylors, Ltd., since 1932. During his apprenticeship in Dundee he was elected president of the Junior Pharmacy Club and later served for two years as chemistry demonstrator at Dundee Technical College, qualifying in 1931. From 1932-42, when he joined the Royal Navy, he managed a branch of the company at Driffield, Yorks. Upon his release from service with the Navy (during which he was in command of a vessel) he took over for his previous employers a recently acquired business in

Kirkcaldy, Scotland. In November 1946 he was appointed manager of the company's Consett, co. Durham, branch, and in April 1948 he was transferred to the branch at Blackett Street, Newcastle-on-Tyne.

Mr Charles Hare, M.P.S., who has been appointed president of the Southport Branch of the National Pharmaceutical Union, now conducts the business at 36 Liverpool Road, Birkdale, Southport, which his father, the late Mr. C. Hare, M.P.S., established some fifty years ago. Mr. Charles Hare served his apprenticeship with his father, and qualified in 1937 after studying at the Liverpool School of Pharmacy. After experience on the East Coast and the West End of London, he took over the Birkdale business in 1939.



Brigadier A. R. W. Low, C.B.E., D.S.O., M.P., B.A., who has been appointed chairman of S. Maw, Son & Sons, Ltd. (*C. & D.*, July 3, p. 6), was called to the Bar in 1939. During the recent war, after winning a D.S.O. in Greece, he fought with his regiment, the King's Royal Rifle Corps, in the North African desert campaigns and in Tunisia. Later he joined the staff of Field-Marshal Montgomery and was promoted Lieutenant-Colonel. His staff career culminated in his appointment as Brigadier-General Staff of No. 5 Corps. For his services to the Allied cause he was made a C.B.E., a Commander of the American Legion of Merit, and awarded the French *Croix de Guerre avec palmes*. At the general election of 1945, Brigadier Low successfully contested Blackpool North as a Conservative. He is a director of Grindleys Bank, Ltd.



BIRTH

Power.—At Finglas, co. Dublin, recently, Mary, the wife of Cyril Power (a director of Jeyes Sanitary Compounds (S.E.), Ltd.), of a daughter (Cyrileen Mary).

MARRIAGE

Dendy-Lord.—At West Blatchington, Sussex, Michael Dendy, Hove, to Audrey Mary Lord, M.P.S., 37 Woodland Avenue, Hove, 4 Sussex, only daughter of Mr. Frank Lord, M.P.S. (pharmacy superintendent, Co-operative Chemists (Sussex), Ltd., Brighton).

DEATHS

Baxter.—On May 8, Mr. Cyril Harry Mills Baxter, Bourne, Lincs, aged sixty-nine. Mr. Baxter qualified as a chemist and druggist in 1903.

Goddard.—On June 9. Mr. Ernest John Talbot Goddard, M.P.S., 2 Derwent Road, Palmers Green, London, N.13, aged fifty-five. Mr. Goddard qualified in 1914.

Graham.—On June 30, Mr. Malcolm Douglas Graham, aged sixty-six. Mr Graham, who was a representative of A. F. Suter & Co., Ltd., 15 Philpot Lane, London, E.C.3, had served with the company since 1912.

Josty.—Recently, Mr. Waldemar Josty, M.P.S., 93 Victoria Road, Cirencester, formerly of 12 The Green, Calne, Wilts. Mr. Josty qualified in 1900. After working in Bromley, Kent, he spent three seasons at the Pharmacie Bascoul, Cannes, and later he served for some years as branch manager for Boots, Ltd., in Manchester, Blackburn and Liverpool, before starting business on his own account at Halifax in 1929. He was a past-chairman of the Halifax Branch of the Pharmaceutical Society. Mr. Josty left Halifax for Wiltshire in 1939.

Nevin.—At his home at Kingsden Park, Belfast, on June 28, Mr. Samuel Nevin, formerly in business as a pharmacist at Woodstock Road, Belfast. Mr. Nevin, who retired from business in 1921, retained his interest in pharmaceutical affairs as secretary of the Chemists' and Druggists' Society of Ireland.

White.—Recently, Mr. Arthur Allen White, founder of A. A. White, Ltd., Nairobi, Kenya, aged seventy-four. Mr White qualified as a chemist and druggist in 1903, and went to East Africa in 1908.

TRADE NOTES

Medicine Tumblers.—Wood Bros. Glass Co., Ltd., Barnsley, Yorks, illustrate in this week's issue their graduated pressed-glass medicine tumblers in 1-oz. and 2-oz. sizes.

In Ample Supply.—Johnson & Johnson (Gt. Britain), Ltd., Slough and Gargrave, draw attention to the ample supplies of Johnson's baby powder now available.

New Trial Size.—Koko-Maricopas Co., Ltd., 3 Fleet Lane, London, E.C.4, announce the issue of a new trial size of Koko cream shampoo. Trade terms are given on another page.

Price Reduction. — Cannon Rubber Manufacturers, Ltd., 5A Welbourne Road, London, N.17, point out that their Modern soother is at a reduced price. The price of the Modern anti-colic teat is unchanged.

Labelled to be Tax-free. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce that all their B.P. and B.P.C. chemicals and galenicals are now labelled in such a way as not to render them liable to purchase tax.

An Independent Concern. — N. & M. Gould, Ltd., wholesale druggists' sundriesmen, 66 Stoney Lane, London, E.C.3, point out that they have no connection with or financial interest in any other company trading under a similar name.

Holiday Closing.—The works and offices of Herts Pharmaceuticals, Ltd., Welwyn Garden City, will be closed from 5.30 p.m. on July 16 until 8.30 a.m. on August 3. A skeleton staff will be available to handle urgent inquiries and orders.

Plastic Denture Cleaner. — An assurance has been received by Reckitt & Colman, Ltd., Hull, from the makers of Kallodent acrylic resin that Steradent denture cleanser is entirely suitable for use with that brand of material. Supplies of Steradent remain short, but the makers are endeavouring to meet the demands.

Wholesale Prices of Tablets.—Matthews & Wilson, Ltd., 6 Cole Street, London, S.E.1, have issued a new wholesale price-list (June) which is being sent to all wholesalers and manufacturing chemists. The list gives the prices of all tablets, pills, lozenges, capsules and suppositories, which are official in the B.P. 1932, B.P. 1948, B.P.C., and N.(W.)F.

Filtering Medium.—A filtering medium resistant to chemicals is issued by Fothergill & Harvey, Ltd., 37 St. Peter Street, Manchester, under the name Tygan. Tygan is woven from extruded monofilaments varied to suit particular uses, and at present available in gauges 0.010 and 0.012. Samples are offered.

Casein Thermoplastics.—A handsomely produced brochure in full colour illustrating the uses of Lactoid thermoplastic material issued in sheets, rods, tubes, and discs in a variety of colours and surfaces by BX Plastics, Ltd., Chingford, London, E.4, includes combs, hairbrushes and manicure articles in a list of suitable applications.

Training Courses.—Courses for students in chemical engineering are offered by the Technical College, Bradford; particulars may be obtained from the principal. —Courses are also offered in dental surgery by the Royal Dental Hospital of London, Leicester Square, London, W.C.2; particulars may be obtained from the Dean.

Distribution Change. — Clemmel, Ltd., and Frederick Godfrey (Wholesale), Ltd., announce that John Knox (Stoke-on-Trent), Ltd., Fenton, Stoke-on-Trent, have been appointed sole distributors in the home and export field of Clemmel perfumes, cosmetics and toilet preparations, and of Frederick Godfrey's Renair tonic, pomades and lotions for the hair, Renuklor natural colour restorer, and Follex shampoo sachets.

In Pre-war Presentation.—A new illustrated price-list issued by Morny, Ltd., 22 Wadsworth Road, Perivale, Middlesex, draws attention to the return to pre-war presentation of the Morny series of bath luxuries and toilet preparations, with the addition of other items that have not been obtainable for a number of years. Larger quantities are now available of French Fern soap, and other bath and toilet preparations.

Proprietary Articles Trade Association

Alterations to List (Part 1).—*Bob Martin, Ltd.*, Cleansfur, 7s. 3d. doz., (tax 33⅓ per cent.), inclusive retail price 1s.; Chalk block, 7s. 3d. doz., tax 33⅓ per cent., i.r.p. 1s.; Tibs Preen dry cleaner, 10s. 9d. doz., tax 33⅓ per cent., i.r.p. 1s. 6d.

Alterations to List (Part 2).—*Modern Electrical Industries (Southern), Ltd.*, Warmabed de luxe electric blankets:—Double size £6 16s. 2d. each, tax 66⅔ per cent., i.r.p. £13 8s. 10d.; single size, £4 10s. 8d. each, tax 66⅔ per cent., i.r.p. £8 19s.; junior size, £2 13s. each, tax 66⅔ per cent., i.r.p. £5 4s. 8d. each.

N.H.S. IN NORTHERN IRELAND

Provisional Contracts Accepted

FOLLOWING a meeting of Northern Ireland chemists in Belfast on June 29 at which the terms of remuneration offered by the Northern Ireland Minister of Health for pharmaceutical services under the Health Services Act were rejected by an overwhelming majority (see *C. & D.*, July 3, p. 1), a further meeting between the Pharmaceutical Negotiating Committtee and the Minister took place on July 2. The Committee later issued the following statement:—

> "After a full discussion the Minister undertook to appoint a practising accountant to carry out an investigation into dispensing costs in Northern Ireland and, after receiving the accountant's report, to enter into further negotiations on the basis of this report and that made by accountants appointed by the chemists, full account to be taken of pharmaceutical practice in Northern Ireland. Subsequently, at a meeting of the Pharmaceutical Negotiating Committee, it was decided, in view of this undertaking, to recommend all chemists to enter the Health Service provisionally, pending the outcome of further negotiations."

In the schedule offered by the Ministry the average dispensing fee was 1s. 3d. but efforts to obtain payment for rota duties failed. The Ministry agreed to an increase from 2½d. to 3d. in the container fee in view of local practice in prescribing larger bottles. In a letter to chemists following the negotiations the Committee stated that the Ministry had conceded the important principle that it was now prepared to deal with the dispensing fee on its merits, without tying it to any offer put forward in Scotland. If further negotiations result in an increased fee, payment will be made retrospectively.

At the meeting on June 29, at which Mr. Robert Gibson (chairman, Pharmaceutical Negotiating Committee) presided, it was stated that the Ministry's offer, which was essentially the same as that made to Scottish chemists, had been received on June 19. At a meeting with Ministry officials on June 24 a counter claim, supported by the results of a detailed investigation into dispensing costs, had been submitted by the Committee. At a final meeting on June 29 the Ministry had refused to amend the original offer. An offer from the Committee to submit the matter to arbitration was not accepted.

The Drug Pricing Committee appointed by the General Health Services Board, which has the duty of determining, in accordance with the scales fixed by the Ministry, the payment to be made for pharmaceutical services, consists of a chairman (not a pharmaceutical chemist) and six other members including four pharmaceutical chemists. Not less than half the members must be members of the Board. The following have been appointed: Dr. J. H. P. Giff (chairman), Dr. C. Kidd, Mr. H. McCullough, L.D.S., and Messrs. H. W. Gamble, Ph.C., Robert Gibson, Ph.C. (a past-president of the Ulster Chemists' Association and chairman of the Negotiating Committee), John McGregor, Ph.C. (president of the Pharmaceutical Society of Northern Ireland), and S. McLoughlin, Ph.C. Mr. McGregor is also a member of the General Health Services Board.

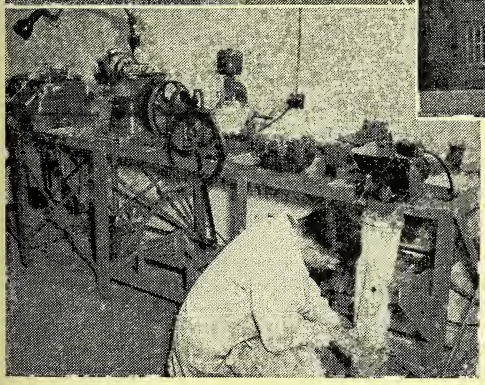
C. & D. DISPENSING PRICE LIST

THE following price changes that took effect in June should be noted :—

Cost		*Due allowance has been made for purchase tax, if any, at current rates*	Dispensing price		
d.	*per*		4 oz. *s. d.*	1 oz. *s. d.*	1 dr. *s. d.*
26	lb.	Alumen exsicc. pulvis ..	1 0	0 3½	—
144	lb.	Ammon. tartras	5 2	1 6	0 3
42	oz.	Bismuth. et ammon. citras	—	6 4	0 11
12	oz.	Calcii lactophosphas	—	1 9	0 3
10	lb.	Creta	0 5	0 1½	—
198	lb.	Elixir aromaticum B.P.C...	7 10	2 4	0 4
66	pt.	Ol. olivæ 16 fl.oz. 7s.3d.	2 1	0 7	0 1
16	gr.	Physostigmina S.1.(4)	per	gr.	2 4
12	gr.	Physostigmin. salicylas S.1.(4)	per	gr.	1 9
66	lb.	Pulvis jalapæ co.	2 5	0 8	0 1½
84	lb.	Syr. ferri brom. c. quinin. B.P.C.	3 11	1 1	0 2
51	lb.	Tinct. gentianæ co.	1 10	0 6	0 1
21	oz.	Tinct. hydrastis	—	3 1	0 6
42	oz.	Tinct. limonis..	—	6 4	0 11
48	oz.	Tragacantha pulvis opt. ..	—	7 0	1 0
36	oz.	Tragacantha pulvis No.2 ..	—	5 3	0 9
30	oz.	Urethanum ..	—	4 5	0 8

RESEARCH UNDER CONTRACT







SONDES PLACE RESEARCH INSTITUTE, DORKING, SURREY.—The main laboratory for general research and development work; bench-scale laboratory with range of small crushing, grinding and mixing machines; and exterior of main building.

THE newly opened Sondes Place Research Institute, Dorking, Surrey, has no precise counterpart in this country—its prototype exists only in the United States. Established as a commercial venture, the Institute undertakes researches—especially in the development of new processes—in a number of branches of science on behalf of industrialists and manufacturers generally, but especially those with no research departments of their own. In the Institute are grouped together, under a common management, laboratories in chemistry, physics, spectroscopy, microscopy, *x*-ray analysis, electronics, etc. The work is done (a) for a fixed fee, (b) on a time basis, or (c) for a monthly or yearly retainer. Whatever the method of payment, fees are based on the average salaries of the men employed, plus a percentage to cover overheads and profits. In each field of industry only one "retainer" client is accepted at a time (unless the client gives his consent to the acceptance of others), and any patent taken out in the course of researches is assigned to the client. The Institute advises not merely on the laboratory aspects of, for example, a new development scheme, but on the design of the pilot and manufacturing-scale plants, and on the economics of the enterprise. On the staff are workers with varied specialised knowledge.

Official Opening

The Institute was launched "on what I am confident will prove a very active, useful and prosperous career" by Sir William Larke (chairman of industrial research committee, Federation of British industries) on June 18. Sir William said that the laboratories were equipped to undertake both scientific and technological research for industry. Britain possessed in her large industrial undertakings research laboratories second to none in the world, and her co-operative industrial research associations (organised under the ægis of the Department of Scientific and Industrial Research) were a form of organisation unique to this country. Only in recent years, however, had the need been recognised for an organisation that would undertake—for payment—research on problems arising in the scientific and technological fields of industry, the results of such work remaining the sole property of those who commissioned it. He hoped that every industrial firm, however small, would have at least one member of its organisation charged with the

responsibility of keeping himself informed of scientific and technological progress in the field of its operations. The Sondes Place Research Institute was adapted to supply the need of small firms, whether the problem was one of "trouble shooting" (the solution of difficulties arising out of apparently normal practice and conditions), or whether it was the development of a new invention or process from the laboratory to the pilot plant stage, or even the investigation of the validity of a new invention or process. The cost must of necessity be only a fraction of what would be involved in setting up an organisation, equipment and staff to deal specially with the solution of a particular problem—to say nothing of the time saved by making use of an existing organisation equipped and staffed for varied researches.

Mr. J. K. Michie (chairman of Mactaggart & Evans, Ltd., proprietors of the Institute) said it was Mr. Mactaggart who had had the idea and ambition to found a research institute. It was manifestly impossible, however, in these days for most individuals to finance an undertaking of that size. During professional contacts with Steel Bros. & Co., Ltd., of which company Mr. Michie was chairman, Mr. Mactaggart had expounded his ideas, and the Institute was the outcome.

AUSTRALIAN DRUG TRADE ATTACKS HEALTH ACT

Campaign against enforcement of Victorian State legislation introduced for the control of proprietary medicines

At their annual luncheon on July 1, members of the Proprietary Remedies Export Group had as guest speaker the chairman of the Drug and Allied Trades Council of Australia, Mr. Norman A. H. Catts. Mr. Catts, who was introduced by the chairman of the Export Group (Mr. F. A. S. Gwatkin), reminded his hearers that there were health Acts in Australia and New Zealand corresponding to the National Health Service Act in Great Britain. Such legislation was evidence of a trend that manufacturers were powerless to halt. They were entitled, however, to resist unnecessary and unwarranted interference, and legislation in the State of Victoria (see *C. & D.*, January 31, p. 151) was regarded by the trade as being unnecessarily dictatorial. All sections had combined to combat it — indeed, opposition was so united that for the first time the manufacturers in Australia of "ethical" and of advertised proprietaries had come together.

1942 Act

The Victorian Health (Patent Medicines) Act, 1942, was passed by the Victorian Parliament at a time when the nation was preoccupied with war and with the grave turn of events in the Pacific battle area. Nevertheless, once the Bill was introduced, it was attacked by members on various grounds. The Act that resulted was a hotch-potch. Once passed it was pigeon-holed until, in 1947, a Labour Government remembered and proclaimed the five-year-old Health Act, and to implement it appointed an Advisory Board, the actions of which threatened to disrupt the entire drug trade of Australia.

The Drug and Allied Trades Council of Australia, representing every branch of the manufacturing, wholesale and retail trade, had prepared a detailed case for (a) repeal of the proclamation of the Act, or (b) its amendment. The case was submitted in writing to the Minister of Health of the State of Victoria, who handed it over to the Chief Health Officer for report. The objections of the trade to the Act were directed principally against the complete discretion it gave to the Chief Medical Officer to reject the claims of a manufacturer without even specifying his reasons for rejection. Every form of positive pressure was being applied by the trade to secure repeal or revision, and the co-operation of the Proprietary Association of Great Britain had been sought and promised.

Status of Drug Council

The Drug and Allied Trades Council of Australia had arisen, said Mr. Catts, out of action taken in 1943 when, faced with Federal Government proposals that would have required every manufacturer to submit labels, formulas, etc., certain manufacturers had taken vigorous action that finally resulted in those requirements being disallowed. The Council as founded had no resources and few functions, its principal purpose being to provide a medium of conference. When the new situation developed in Victoria it was considered necessary to establish a larger and stronger body, and a limited company, in which the shareholders were the various trade companies and firms, had been formed.

A vote of thanks to Mr. Catts was proposed by Sir Bernard Lomas-Walker.

B.P. CHANGES AT A GLANCE

(*Continued from* THE CHEMIST AND DRUGGIST, *July* 3, *p.* 12).

New monographs in **Black Type.** Retained monographs in CAPITALS. Omissions in [*Italics*] between square brackets. M.W.=Molecular weight (previous figure in parenthesis). Min.=Minims. gr.=grain. gm.=gram. M.P.=Melting point.

[*Guaiacol*].

HAMAMELIS. — Monograph gives more microscopical details.

Hamamelidis Pulvis. — Description: Dull green. Diagnostic Structures: Epidermis with sinuous cell walls, stomata of rubiate type; covering trichomes singly or in stellate clusters, no glandular trichomes; mesophyll, with one row of palisade cells and occasional lignified idioblasts; vessels, spiral and annular; calcium oxalate usually in single prisms, infrequently in cluster crystals; many cells with brown contents, which are coloured black by test solution of ferric chloride. Foreign organic matter: As under "Hamamelis." Preparations: Extractum Hamamelidis Liquidum; Unguentum Hamamelidis. Extractum Hamamelidis; Suppositoria Hamamelidis; Suppositoria Hamamelidis et Zinci Oxidi.

Heparinum. — A sterile preparation containing sodium salt of a complex organic acid present in mammalian tissues, and having the characteristic property of delaying the clotting of shed blood. It contains not less than 75 units per mgm. (Provisional) method of preparation: Crude heparin obtained from lung or liver tissue and purified in several stages. Description: A greyish brown powder; moderately hygroscopic. Completely soluble in water, and in saline solution, forming clear, colourless or straw-coloured liquid. Reaction of 1% w/v solution in water, *p*H 5.5 to 8.0. Loss on drying to constant weight over phosphorus pentoxide, not more than 15%. Assay, biologically against Standard Preparation (1 unit in 0.0077 mgm.). Storage: in container sealed to exclude bacteria and below 20° (whereby potency retained for twelve months). Label to state units per mgm. and date of manufacture. Preparation: Injectio Heparini. Doses, by intravenous injection, 6,000 to 12,000 units.

[*Hexamina*].

HEXOBARBITONUM.—Addendum III monograph rearranged. Synonym (Hexobarbital) deleted. Graphic formula added. M.W. 236.3 (236.1). Identification: Triturate 0.6 gm. with 5 mils of water and 0.15 gm. anhydrous sodium carbonate; add 0.45 gm. *p*-nitrobenzyl chloride. Limit for neutral and basic substances, 0.2 mgm. from 1 gm. (0.1 mgm.); test changed to that described under "Barbitonum" (water as solvent increased from 3 to 13 mils.

HEXOBARBITONUM SODIUM. — Addendum III monograph rearranged and renamed. Former synonym (Soluble Hexobarbital) deleted. Graphic formula added. M.W. 258.3 (258.1). Contains not less than 98.0%, and not more than the equivalent of 101.0% of $C_{12}H_{15}O_3N_2Na$, referred to substance dried at 100° (96%: Reference to sodium content omitted). Identification: Complies with Tests A, B, C, D and E described under "Barbitonum Sodium." Lead limit (new), 10 parts per million. Limit of neutral and basic substances increased to 2 mgm. from 1 gm. (test as described under "Barbitonum"). Loss on drying (added): Not more than 5.0% at 100°. Assay, as directed under "Barbitonum Sodium" (i.e., for hexobarbitone; sodium assay omitted). Preparation: Injectio Hexobarbitonii Sodii. Paragraph on "Sterilisation of a Solution," amended by Addendum IV, omitted, being included in Injection of Hexobarbitone Sodium.

Hexœstrol. — Graphic formula given for *meso* - γδ - bis - (4-hydroxyphenyl)-*n*-hexane. M.W. 270.4. Contains not less than 99.0% $C_{18}H_{22}O_2$, referred to substance dried at 100°. Description: Colourless crystals or a crystalline powder; odourless. Almost insoluble in water; soluble in alcohol (95%) and in acetone; slightly soluble in chloroform; freely soluble in solvent ether. Dissolves in vegetable oils and in dilute solutions of sodium hydroxide in water. Identification: A, as diacetate, M.P. 137° to 139°. B, 10 mgm. dissolved in 5 mils of sulphuric acid, solution remains colourless (distinction from stilbœstrol which yields a golden yellow solution). M.P. 185° to 188°. Dimethoxy-compounds: Dissolve 0.2 gm. in

a mixture of 3 mils of N/1 sodium hydroxide and 3 mils water warmed to 60°; opalescence not greater than that produced after five minutes by 0.5 mil N/1,000 hydrochloric acid and 0.1 mil solution of silver nitrate diluted with 6 mils water. Loss on drying at 100°, not more than 0.5%. Ash limit, 0.1 per cent. Assay, as under Stilbœstrol. Factor, 0.7628. Preparation: Tabellæ Hexœstrolis. Doses, 1/60 to 1/12 gr.

Histaminæ Phosphas Acidus. — Addendum I monograph rearranged. Synonym: Histamine Phosphate. Words " an organic base " omitted in preamble. Preparation (added): Injectio Histaminæ Phosphatis Acidi. Paragraph on " Sterilisation of a Solution " omitted, requirements, as modified by Addendum IV, included under Injection of Histamine Acid Phosphate.

Homatropinæ Hydrobromidum.—Graphic formula added. M.W. 356.3 (356.1). Contains not less than 76.7% and not more than 77.5% homatropine, $C_{16}H_{21}O_2N$ (new). Assay (added): Extraction of alkaloid, and titration (of excess sulphuric acid added) with N/20 sodium hydroxide to cochineal or methyl red. Factor, 0.01377. Doses, omitted.

[*Hydrargyri Iodidum Rubrum*].

Hydrargyri Oxidum Flavum. — Heating at 100° (instead of 150°) to be used in limit (1.0%, same) for loss on drying. Oculentum Atropinæ cum Hydrargyri Oxido added to " Preparations."

Hydrargyri Oxycyanidum.—Formula and molecular weight omitted. Contains not less than 14.5%, and not more than 16.5% of HgO (20 to 22%); not less than 83.5%, and not more than 85.5% of $Hg(CN)_2$ (77 to 79%). Almost completely soluble in about 18 parts of water (Addendum I modification). Clarity of solution: 1 gm. dissolved in 200 mils of water gives a clear solution (Addendum I addition). Doses, omitted.

Hydrargyri Perchloridum. — " Hydrargyri Chloridum Corrosivum " omitted from synonyms. Assay: 10 mils solution of calcium chloride to be added (to solution of about 0.3 gm. in 85 mils of water) as well as potassium iodide solution, formaldehyde and sodium hydroxide solution.

Injectiones. — The Introduction (p. xvi) explains that methods of preparing sterilised materials for parenteral injections have been revised and extended; being designed for large or small scale preparation. Reliance is placed on heating in an autoclave or on filtration (followed by sterility tests) wherever possible. Heating with a bactericide has been introduced for certain thermolabile substances. Tyndallisation (discontinued by Addendum IV) is abandoned. Directions are given for individual injections, instead of under materials (as in the B.P., 1932, as amended by Addendum IV). Injections of unstable drugs are prepared by dissolving sterile material in sterile liquid immediately before use. Standards and assay are given for any strength within the range of dosage, and the dose to be dispensed or supplied when an injection is ordered by name only with no instructions specified, is laid down (given as " dispense " below).

Injectio Adrenalinæ. — " Caution " heads monograph. Synonym: Injection of Adrenaline Tartrate. Formula: Adrenaline, 0.1 gm.; Tartaric Acid, 0.08 gm.; Sodium Metabisulphite, 0.1 gm.; Sodium Chloride, 0.8 gm.; Water for Injection, to 100 mils. Dissolve the sodium metabisulphite and tartaric acid in 10 mils water for injection; dissolve the adrenaline in the solution. Dissolve the sodium chloride in 75 mils water for injection. Mix and make to required volume. Sterilise by heating in autoclave. Must comply with alkalinity and sterility tests. Protect from light. Doses, by subcutaneous injection, 2 to 8 min.

Injectio Æthanolaminæ Oleatis. — Formula: Ethanolamine, 0.91 gm.; Oleic Acid, 4.23 gm.; Benzyl Alcohol, 2.0 mils. Water for Injection to 100 mils. Add the oleic acid to 50 mils water, for injection in closed container; add ethanolamine gradually, shaking between each addition until combination is complete; add the benzyl alcohol, shake, and make up to required volume. Sterilise by autoclaving. Must comply with sterility tests. Protect from light. Doses, by intravenous injection, as a sclerosing agent, 30 to 75 min.

Injectio Amethocainæ Hydrochloridi. — Prepared by dissolving the (sterile) contents of a sealed container in required amount of Injection of Sodium Chloride

immediately before use. Tolerance: 88.5 to 111.0 per cent. of quantity of Amethocaine Hydrochloride (to be specified) on label of sealed container. Identification and Assay (of contents of sealed container) as under "Amethocainæ Hydrochloridi." Contents to comply with sterility tests. (Strength and Doses, not given.)

Injectio Aneurinæ Hydrochloridi. — Synonyms: Injection of Aneurine Hydrochloride; Injection of Vitamin B_1; Thiamine Hydrochloride Injection. Prepared by dissolving aneurine hydrochloride in water for injection; sterilising solution by filtration; distributing in ampoules; and sealing. Content: 90.0 to 108 per cent. of strength stated on label. Identification and assay (on 20 to 100 mgm.) as under "Aneurine Hydrochloride." Ampoules to comply with alkalinity and sterility tests. Protect from light. Labelling: Name and strength on container; also on package with name and percentage of any added bacteriostat. Dose: $\frac{1}{6}$ to $\frac{1}{2}$ gr. Dispense: 25 mgm. in 1 mil; or 2/5 gr. in 15 min.

Injectio Antimonii et Potassii Tartratis.— Sterile solution in water for Injection containing 94.0 to 105.0 per cent. of content of $C_4H_4O_7SbK,\frac{1}{2}H_2O$, stated on label. Sterilise by autoclaving or filtration. Identification and assay (on about 0.5 gm.) as under "Antimonii et Potassi Tartras." To comply with sterility tests. Labelling: Name and strength; also on package with name and percentage of any added bacteriostat. Doses, by intravenous injection, $\frac{1}{2}$ to 2 gr. Dispense: Solution containing 20 mgm. in 1 mil; or $\frac{1}{3}$ gr. in 15 min.

Injectio Antimonii et Sodii Tartratis. — Similar to above, but with content, 85.5 to 105.0 per cent. of $C_4H_4O_7SbNa$, stated on label. Doses, $\frac{1}{2}$ to 2 gr. Dispense: Solution containing 60 mgm. in 1 mil; or 1 gr. in 15 min.

Injectio Apomorphinæ Hydrochloridi. — Sterile solution of Apomorphine Hydrochloride in Water for Injection. Contains 0.05 per cent. sodium metabisulphite. Sterilisation by heating with bactericide, or by filtration. To comply with alkalinity and sterility tests. Solution that has become green (on storage) should be rejected. Labelling: Name and strength; also on package with name and percentage of any added bactericide or bacteriostat. Doses, 2 to 8 mgm., $\frac{1}{32}$ to $\frac{1}{8}$ gr. Dispense: 3 mgm. in 1 mil; or 1/20 gr. in 15 min.

Injectio Atropinæ Sulphatis. — A sterile solution of Atropine Sulphate in Water for Injection. Sterilise by heating with bactericide or by filtration. To comply with alkalinity and sterility tests. Labelling: Name and strength; also on package with name and percentage of any added bactericide or bacteriostat. Doses, 0.25 to 1 mgm. in 1 mil, or 1/240 to 1/60 in 15 min. Dispense: 0.6 mgm. in 1 mil; or 1/100 gr. in 15 min.

Injectio Bismuthi.—Formula, process and container (as modified by Addendum IV) superseded. Formula (new): Precipitated Bismuth, in very fine powder, 5 gm.; Dextrose, 1.25 gm.; Chlorocresol, 0.025 gm.; Water for Injection, 23.5 mils. Dissolve chlorocresol in water for injection with aid of gentle heat, dissolve dextrose in the solution, place in final container, add precipitated bismuth, and mix thoroughly. Finally seal and sterilise by heating in autoclave. To comply with sterility tests. Doses and strength unchanged.

Injectio Bismuthi et Sodii Tartratis.— Sterile solution of Sodium Bismuthyl Tartrate in Water for Injection adjusted to *p*H 5.5 with tartaric acid. Sterilisation by autoclave or filtration. Labelling: Name, strength, and name and percentage of any added bacteriostat on both container and package. Doses, 60 to 200 mgm., 1 to 3 gr. Dispense: 60 mgm. in 1 mil; or 1 gr. in 15 min.

Injectio Bismuthi Oxychloridi.—Monograph of Addendum IV with "Water for Injection" replacing "Distilled Water, freshly prepared." Complies with sterility tests (added). Protect from light (new).

Injectio Bismuthi Salicylatis. — Monograph of Addendum IV omitting "Olive Oil" (i.e., Arachis oil is now sole basis). Complies with sterility tests (added). Protect from light.

Injectio Caffeinæ et Sodii Benzoate.—A solution of Caffeine and Sodium Benzoate in Water for Injection sterilised by heating in an autoclave, or by filtration. To comply with sterility tests. Labelling: Name and strength; also on package with name and percentage of any added bacteriostat. Doses, 0.12 to 0.3 gm.; 2 to 5 gr. Dispense: 0.25 gm. in 1 mil; or $3\frac{3}{4}$ gr. in 15 min.



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End of Cosmetics Control

AFTER eight years of close control, the manufacture and supply of toilet preparations has been free since July 1 (see *C. & D.*, July 3, p. 1). What the full effect of this freedom will be it is possible only to conjecture, since other factors have operated to prevent the structure of the industry from returning to the precise form in which it existed in 1940, and there is, moreover, not yet an entirely free access to raw materials. In general it may be supposed that the established and well-advertised brands will henceforth have less to fear from the small manufacturer, that retailers who have been making their own preparations to a maximum value of £41 13s. 4d. monthly will be compelled to exercise a greater degree of salesmanship if they wish to maintain turnover in those goods, and that considerable economies may be possible to manufacturers who are also exporters by the opportunity to avoid a double standard of production. Indeed, it is in the export field that the absence of restriction is likely to have its most important effect, since it enables manufacturers to compete on more nearly level terms with their opposite numbers in France, the United States, and other producing countries.

The effects of the controls, as the chairman of the Toilet Preparations and Perfumery Manufacturers' Federation points out in a letter to members (see p. 61), have not been entirely restrictive. Apart from enabling the trade to make a most valuable contribution to the war effort in the years 1940-45, and permitting the "concentrated" firms to "hold on," the controls have had the important side-effect of bringing into active existence a trade body fully representative of all manufacturing interests. The Federation remains the most satisfactory machinery for distributing allocations of raw materials in short supply, and can continue to render signal service to its members, both collectively and individually, even in the remote contingency that supply problems cease to exist. The Federation is working out a practical programme of future activities, and its call for continued unity is timely.

Poison Rule Progress

THE Poisons (Amendment) (No. 2) Rules, 1948 (see p. 55), put an end to controversy about "repeats" of prescriptions for Fourth Schedule poisons. The new rules terminate the official sanction hitherto granted for a patient to obtain phenobarbitone and similar drugs *ad libitum*—a procedure which the *C. & D.* has consistently emphasised (see, for example, *C. & D.*, 1947.II.49 and 445-46) to be contrary to the provisions and intentions of Poison Rule 12. Henceforth the physician, and not the patient, decides the amounts and times of supply.

The prescribing of Schedule IV drugs is a prerogative that carries with it a responsibility. The revised rules prevent laxity in this respect; they also rescue pharmacists from being faced with the dilemma of antagonising physician or patient or both. In future either the "times" or the "intervals" of dispensing must be stated on the prescription. Subparagraph (bb) provides new restrictions that may require revision unless prescribers limit the amounts ordered so as to conform with the intentions of the new limitations. Under the present wording of the Order a repeat prescription for, say, 100 or more tablets may be redispensed every three days until the stated number of times is completed. *Per contra*, if such prescription is to be repeated only at suitable intervals (of, say, one week or one month) then it automatically expires after three dispensings, possibly to the surprise or dismay of the patient. Dispensing chemists may have to elucidate the effects of

the Order for the benefit of prescribers, who cannot be expected to be at once aware of the intricacies of Poison Rule 12 of 1935, as modified by Statutory Instruments in 1947 and 1948.

Tab. codein. co., B.P.C., is a second subject of "conflict and confusion" (*C. & D.*, 1947.II.145) to be removed from the sphere of argument as to its Ex.S.1. status, for the limit for codeine is increased from 1.0 to 1.5 per cent. The Codex tablet of variable weight becomes replaced in September by a fixed-formula B.P. tablet of 8⅓ grains, containing gr. ⅛ of codeine phosphate, equivalent to 1.07 per cent. of alkaloid or 1.54 per cent. of the salt. On the ruling which we attacked in our previous editorial, the latter figure would still leave the new tablet within Schedule I. It seems clear that the limit has been raised in anticipation of the new B.P. tablet and, therefore, in confirmation of our own argument that calculation of percentage must be on the fixed molecular composition of the alkaloid and not on the variable molecular weight of its salts. The Pharmacopœial precept of specifying alkaloidal content in conjunction with molecular formula (e.g., that codeine phosphate must contain "not less than 69.5 per cent. of codeine, $C_{18}H_{21}O_3N$") is in line with our argument. The contrary view, which runs "counter to all canons of calculation in poisons law," is, we trust, finally laid to rest by the new rules.

There is one other matter on which we may comment. The insertion of words in the Poisons Rules to correct changes in entries to schedules may be necessary but is a nuisance in view of the difficulty in coping with more important alterations. Thus "paranitrobenzyl cyanide" is to be inserted in the first column of the Third Schedule after the words "Oxalic acid; metallic oxalates," but those entries do not exist in the Schedule as printed (in 1935). They were part of Schedule A in Statutory Rules and Orders, 1937, No. 1030. The new rules relax Rules 12 and 27, so far as retailers are concerned, so as to enable supply of Schedule IV poisons in case of emergency. They remain decidedly vague as to the manner in which any contravention is to be rectified or penalised.

Ten Years of Cosmetic Legislation in the United States

The Federal Food, Drug and Cosmetic Act signed by the late President Roosevelt on June 25, 1938, and described recently by counsel for the American Pharmaceutical Manufacturers' Association as "the most important social law yet enacted by Congress," went considerably further than any other previous measure designed to protect purchasers and consumers of food and drugs. Even more important, it placed cosmetics alongside food and drugs as being goods potentially dangerous to the user. As it was put in an editorial comment at the time (*C. & D.*, 1938.II. 194): "Cosmetics are at long last being recognised to have important side effects, if not direct action, so far as the health of the person using them is concerned."

The Act was thus a milestone in the upward progress of ethical standards in the United States, and it has had, moreover, repercussions outside the United States, since its rigid import requirements have been strictly enforced by the Food and Drug Administration even when, in recent years, shortages of supplies have resulted in inferior grades of certain botanical drugs and other commodities being the only ones available in producing countries.

During the ten years since it became law, the Food, Drug and Cosmetic Act has been further strengthened by a number of amendments, and it is understood that still more changes are to be made that will fortify and correct defects in the machinery of enforcement. There are voices in the U.S.A. calling for powers over the advertising of products covered by the Act—at present vested in the Federal Trade Commission—to be given to the Food and Drug Administration. Whether their demands will gain general support is not known, and what would be the effect of the transfer on manufacturing and marketing is even more difficult to predict. So far as the existing provisions are concerned, however, it may be claimed that reputable manufacturers of toilet preparations in the United States have come to regard the Act as a protection against the many unscrupulous producers who flourished in the industry prior to 1938.

International Health Co-operation

THE first meeting of the World Health Assembly now in session at Geneva (see *C. & D.*, June 26, p. 815) is an occasion of some significance to pharmacists since the World Health Organisation numbers among its functions "to develop, establish and promote" international standards of biological and pharmaceutical products.

International co-operation in health, which led to the formation of the Organisation in 1946, dates back to 1831, when the Egyptian Quarantine Board, designed to protect Egypt from the bubonic plague, was constituted. At Paris, in 1851, a First International Sanitary Convention was drawn up—but not ratified. Not until 1892 was an international sanitary convention signed—a measure against cholera. At a conference in Rome, 1907, proposals for a permanent international health office (Office International d'Hygiène Publique) in which thirteen countries were to participate, were approved. The office was located in Paris and functioned there until it was amalgamated with the World Health Organisation in November 1946. It worked co-operatively with the League of Nations Health Organisation, formed in 1920. During the 1939-45 war the work of the Paris Office was transferred to UNNRA. The World Health Organisation came into being at the International Health Conference, New York, U.S.A., convened by the United Nations. Among its functions not already mentioned, the Organisation undertakes to furnish technical assistance to governments, to promote and to conduct research in the field of health, and to promote improved standards of teaching in medical and related professions. Outstanding among the work which the provisional W.H.O. Interim Commission has accomplished is the setting up of expert committees on problems such as biological standardisation, venereal disease, malaria and tuberculosis. The expert Committee on biological standardisation has already worked out international standards for vitamin E, heparin and penicillin, while pioneer work has also been done on standardising diphtheria and tetanic toxoids, tuberculin, and B.C.G. vaccine. The Commission is taking part in observations on B.C.G. vaccine involving reports on some 50 million individuals.

POISONS RULES AMENDED

THE following changes in the Poisons List and Poisons Rules came into effect on July 5:—

(1) Tridione (3:5:5-trimethyl-oxazolidine-2:4-dione) added to Part I of the Poisons List and to the First and Fourth Schedule of the Poisons Rules.

(2) Substances containing less than 1.5 per cent. of codeine exempted from provisions of First Schedule (limit formerly 1 per cent.).

(3) Paranitrobenzyl cyanide, in photographic solutions containing less than the equivalent of 0.1 per cent. w/w of hydrocyanic acid (HCN), added to group II of the Third Schedule (and thus exempted from the provisions of the Rules).

(4) Authority given for poisons for which a written prescription is normally necessary to be dispensed in an emergency without a prescription on the order of a doctor who undertakes to provide a prescription within twenty-four hours.

(5) Previous rule under which, in a hospital or similar institution, medicine containing a poison and intended for use in the institution may be dispensed in an emergency without a written order amended to allow such medicine to be so dispensed only on an undertaking to furnish a written order within twenty-four hours.

(6) Methods of prescribing Fourth Schedule poisons to be dispensed on more than one occasion made subject to the following restrictions:—

A prescription for a Fourth Schedule poison may be dispensed not more than once unless the prescriber states (a) that it may be dispensed a stated number of times or (b) that it may be dispensed at stated intervals. Under (a), if no interval is specified, the prescription may be dispensed not more often than once in three days. Under (b), if the number of repeats is not specified, the prescription may be dispensed not more than three times.

The changes are given effect by the Poisons List (Amendment) (No. 2) Order, 1948 (S.I., 1948, No. 1378), and the Poisons (Amendments) (No. 2) Rules, 1948 (S.I., 1948, No. 1379) obtainable from H.M. Stationery Office, price one penny.

SURFACE-ACTIVE AGENTS AS ANTISEPTICS

By A. E. Alexander, B.Sc., M.A., Ph.D. (Assistant Director of Research, Colloid Science Department, University of Cambridge)

DURING the past three decades an enormous variety of substances has been prepared for use as wetting agents, detergents and emulsifiers. All such agents depend upon their ability to concentrate at some type of interface. Not until a little over ten years ago was their value as antiseptics realised.

Synthetic and Natural " Soaps "

Compounds such as sodium oleate, bile salts and certain phospholipoids are well known surface-active agents of natural origin, but for simplicity the term " soap " is here used generically to cover both the natural and the synthetic materials. Although chemically surface-active agents are of very diverse types, they have certain structural features in common; for example, all possess a strongly hydrophobic portion (often a paraffin-chain), and also a strongly hydrophilic group to impart the necessary water-solubility. The hydrophobic portion is primarily responsible for imparting surface activity to the whole molecule. In addition it brings about aggregation to colloidal particles, termed micelles, in the higher concentration ranges. The properties of surface activity and micelle-forming ability are of fundamental importance in determining the biological activity of soaps, alone or mixed with other drugs.

Classification is usually on the basis of the charge carried by the organic part of the molecule, namely:—

1. anionic, such as: $C_{17}H_{33}COO'\,Na^+$ sodium oleate, or $C_{12}H_{25}SO'_4Na^+$, sodium lauryl sulphate.

2. cationic, such as: $C_{16}H_{33}N^+(CH_3)_3\,Br'$, cetyl trimethyl ammonium bromide, or $C_5H_5N^+.C_{16}H_{33}N^+\,Cl'$, cetyl pyridinium chloride.

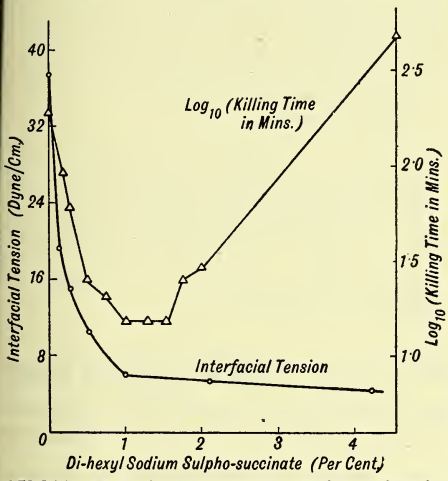
3. neutral (e.g. long-chain polyglycerides or poly-ethylene oxide). In this article the prime concern is with the first two, for usually the neutral compounds are without bactericidal activity—some, in fact, have been used to encourage submerged growth (e.g. of the tubercle bacillus). In discussing the anionic and cationic soaps as antiseptics it is convenient to deal first with the soaps alone, and later with soaps in admixture with other substances that possess bacteriological activity, such as phenols, sulphonamides, penicillin, etc. The influence of organic matter liable to be present *in vivo*, such as blood, serum, etc., has also to be considered.

Cationic soaps are usually much more toxic than those of the anionic type to organisms, the killing dilution for the common pathogenic germs often being less than 1:10,000 when tested *in vitro*. For external application the two cationic soaps mentioned above now find widespread use, though a few cases of dermatitis have been reported after prolonged application. Gram-positive organisms (e.g., *Staphylococcus aureus*) are generally susceptible to anionic soaps, whereas the Gram-negative (e.g., *Bacillus coli*) can often tolerate high concentrations. The composition of the medium, particularly the *p*H, nature and concentration of salts, presence of proteins and other colloidal materials, can markedly influence the activity. For example, the anionic soaps become more effective in acid environments and the cationic ones in alkaline environments. Salts, added in amounts insufficient to precipitate the soap, increase the bactericidal activity, whereas colloids, such as proteins, decrease the activity. General conclusions of this kind indicate the absence of any specific chemical reaction between soap and bacterium, and suggest that certain common physico-chemical factors are at work.

Mode of Action

Though the antiseptic activity of soaps is undoubtedly closely linked to their tendency to concentrate at the bacterium/water interface, attempts to correlate biological activity with the lowering of surface tension (i.e., adsorption at an air/water interface), have had only a limited success. Comparison with adsorption upon the actual biological surface—so far, unfortunately, rarely measured—shows a much closer agreement. The adsorption power arises primarily from the tendency of the water to squeeze out the hydrocarbon chain, but is also influenced by the electrical (Coulomb) forces arising from the charges upon the bacterium and upon the soap ion. Bacteria are normally negatively charged at neutral *p*H, and have isoelectric points usually between *p*H 2.5-5.5. The electrical forces thus assist adsorption upon the bacterial envelope with cationic soaps, but hinder adsorption with the

anionic type. Lowering the *p*H, and thus decreasing the negative charge on the bacterium, tends to increase the relative adsorption of the anionic soaps, while increasing the negative charge by raising the *p*H increases the relative adsorption of the cationic type. Addition of inorganic salts reduces the electrical interactions, and thus permits further adsorption. Conversely colloids, such as protein, act as competitive



AEROSOL M.A. (di-hexyl sodium sulpho-succinate), 0.5 per cent. phenol mixtures. Bactericidal activity against B. coli (Rideal-Walker test), and interfacial activity against medicinal paraffin, as function of soap concentration.

adsorbers and tend to bring about detoxication. Detoxication by colloidal materials is generally more pronounced with the cationic soaps, since at neutral *p*H most natural colloids are negatively charged. The principal bacteriological effects brought about by changes in the aqueous environment may thus be explained on accepted physicochemical principles.

Various theories have been suggested to explain how adsorption of a soap leads to the ultimate bacteriostatic or bactericidal action. Inhibition of bacterial metabolism, by adsorption upon a vital enzyme system, or rupture of the bacterial membrane, thus allowing vital cell constituents to escape, appear to be the most plausible. Adsorption is certainly accompanied by some reduction of metabolic activity, but the precise relationship is not clear. There is also evidence of a general increase in cell permeability, for the rate of killing appears to be closely related to the rate of loss of inorganic nitrogen and phosphorus compounds, as shown by Hotchkiss (see p. 58). However, in view of the number of ways in which the death of the bacterial cell could conceivably be brought about, any general theory seems rather improbable.

Enhanced Antiseptic Activity

Let us now consider the bacteriological activity of systems containing a soap and another drug, particularly phenols. Many attempts have been made to utilise the detergent powers of soaps to enhance the activity of phenolic antiseptics, though early studies of bactericidal activity, as determined by the Rideal-Walker method, had given varied and conflicting results, some workers reporting an increase, others an equally definite decrease, in antiseptic value. A recent examination of the problem has cleared up this apparent discrepancy, and indicated the physicochemical factors involved.

With a Gram-negative organism, such as *B. coli*, addition to a phenol solution of an anionic soap, itself non-toxic, leads at first to an increase in bactericidal activity. Further additions of soap cause the activity to pass through a maximum and, if enough soap is added, activity becomes very small. This is shown in the graph opposite, where the time for complete killing (Rideal-Walker technique) is plotted as a function of soap concentration. Examination of the interfacial activity of the various mixtures showed that micelles commence to

TABLE 1

Rideal-Walker test of hexyl resorcinol (0.015 per cent.), phenol (0.5 per cent.) and cetyl pyridinium bromide (0.001 per cent.).
Test organism—*B. Coli.*
\+ indicates some viable bacteria present.
— indicates complete sterilisation.

TIME (mins)	Phenol alone	H.R. alone	C.P.B. alone	Phenol plus C.P.B.	H.R. plus C.P.B.
5	+	+	+	—	+
10	+	+	+	—	—
20	+	+	+	—	—
30	+	+	+	—	—
40	+	+	+	—	—
60	+	+	+	—	—
120	+	—	+	—	—
180	+	—	—	—	—
240	+	—	—	—	—
360	+	—	—	—	—

form in the bulk of the solution just at the point of maximum biological activity. (The onset of micelle formation is indicated by the sudden change in slope of the interfacial tension curve). The fall in activity is due to the micelles being powerful

adsorbers for phenolic compounds and thus competing with the bacterial surfaces for the fixed amount of phenol present.

The addition of soaps that are themselves definitely bactericidal (e.g., cationic soaps with *B. coli*) enhances the germicidal powers of phenol solutions, for the soap concentrations used are much below that needed to form micelles. Table 1 shows a typical Rideal-Walker test with *B. coli* in the presence of 0.001 per cent. cetyl pyridinium bromide, 0.5 per cent. phenol or 0.015 per cent. hexyl resorcinol, alone and in admixture. The time for complete killing is clearly much less in the soap/phenol mixtures than in either component separately. Enhanced activity at concentrations below the micelle point, observed whether the soap is itself toxic or not, appears to be closely linked with the increased surface activity of the mixture (see graph). Adsorption of soap, or of a soap/phenol complex, modifies in some way the outer surface of the bacterium, thus allowing the phenol to penetrate more readily. Addition of inorganic salts to a soap/phenol system lowers the critical concentration for micelles and increases the surface activity of the mixture. From the changes in these physical properties, certain predictions can be made concerning bactericidal activity that are in good agreement with experiment.

By studies like those outlined, a better understanding of the way in which soaps influence the activity of drugs in general is being acquired. Since natural soaps (e.g., bile salts) are often present with drugs administered orally, the influence of soaps on drug activity is of general pharmacological significance.

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PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Medical-aid dispensaries, Scholarship regulations, and the expenses of Branch Representatives come in for discussion by the Council

THE Council of the Pharmaceutical Society met in London on June 29 and 30, the president (Mr. H. Clement Shaw) in the chair.

THE SECRETARY reported that forty-one persons had been registered as apprentices or students, bringing the total of registrations for the current year to 472. Applications from sixty-one persons for the restoration of their names, removed at the previous meeting of the Council, were received and approved, and the restoration of twelve names removed in preceding years was also agreed. Nineteen sets of premises were restored to the Register.

Attention was called to a circular issued by the Minister of Health in which it was suggested that, as a provisional measure for six months, dispensaries hitherto maintained by certain medical-aid societies should be taken over by local authorities where the society concerned did not intend to continue the service after July 5. The purpose of the measure was to ensure that there would be no break in the continuity of dispensing arrangements when the National Health Service was begun, and it was intended that the dispensaries in question should be conducted for the time being as health centres under the Act. It was reported also that the London County Council proposed to establish at Stoke Newington a comprehensive health centre that would be the first of nine permanent centres to be erected in London in due course. The Council appointed a small committee to discuss the matter with the Ministry of Health. It was also decided that inquiries should be made on the subject of the group supply officers for whom advertisements had been issued by some hospital management committees. Further consideration was also given to the inclusion of representatives of pharmacist managers and pharmacist assistants in the Whitley Council machinery for pharmacy; a letter on this subject was received from the National Association of Employee Pharmacists, and it was decided to send a reply indicating the action that was being taken.

It was reported that a letter had been sent to the Minister of Health asking that the Society should be one of the bodies taken into consultation in connection with the appointment of the advisory committee for which the Bill makes provision.

MR. A. A. MELDRUM, who presented the report of the Education Committee for

948, said the Committee had received the eport of the examiners in the Scholarhip's competition but noted with regret hat no candidate had obtained the minimum marks for an award. It was felt that he increasing tendency to take academic tudies to completion before receiving practical training made it desirable to review he regulations governing the awards. The Committee had agreed to do that at its October meeting. MR. HIRST said that, as an old examiner in that competition, he was worried. It was the first time in the history of the examination that no student had qualified, and he agreed that the situation required reviewing. He hoped that something could be done to let students know that the scholarships were being held. THE PRESIDENT replied that, under the new set-up, the question of scholarships would doubtless be carefully considered, and the point raised by Mr. Hirst might well be considered at the same time.

MR. A. R. MELHUISH, seconding the reception of the report, drew attention to the part-time refresher courses for members. At the Ministry of Health the previous week he had drawn the Minister's attention to the desirability of establishing refresher courses for pharmacists, particularly in view of the rapid advance in medical treatment and scientific medicine. He did not receive any satisfaction at the time, but he was informed that a note was made of the matter, and he hoped that before proceeding far with the establishment of refresher courses, the position, so far as the Ministry of Health was concerned, would be considered. The report was received.

Branch Organisation

MR. F. G. WELLS, in presenting the report of the Organisation Committee, said that the Committee had considered two resolutions dealing with the expenses of members of Council and branch representatives. The first was "That it is the opinion of this meeting that, in order that any member of the Society should be able to serve on the Council, the scale of expenses should be sufficient to cover all outgoings necessarily incurred by Council members in the discharge of their duties." It was recommended that the following statement should be adopted: "In order to deal with this question it is necessary to consider a larger question, of which it is a part, namely, the financial disadvantage which a member of Council may suffer in consequence of being a member of Council. It is neither practicable nor desirable to estimate this disadvantage. It is difficult enough in practice to decide what a member of Council 'necessarily' expends in carrying out his duties yet the question cannot be divorced fairly from the even more difficult question of what he may lose indirectly by virtue of his membership. The basis of Council membership should be a desire to serve the causes for which the Society stands and an element of sacrifice of time and money must inevitably enter into such a service. Any attempt to remove this element by a financial payment would be destructive of the spirit in which the work should be carried on if members of Council are to give satisfactory service to the Society. For this reason the Council cannot see its way to implement the resolution."

Expenses of Branch Representatives

The second resolution was "That it is the opinion of this meeting that the reasonable expenses incurred by representatives, in attending a Branch Representatives' meeting, should be paid by the Society." It was recommended that, in addition to the third-class return railway fare, £1 1s. should be paid to representatives necessarily spending a night away from home.

MR. T. HESELTINE said that, whilst all members probably agreed with the sentiments expressed, he did not think it was meeting the case put by the conference. He took the view that whoever sent the resolution forward had in mind the possibility that an excellent person might be left outside merely because he or she could not afford the expenses incurred. He felt that the Council was by-passing the actual meaning of the resolution. MR. F. G. WELLS replied that the Committee had no knowledge of anyone being restricted so far as expense was concerned. Should the question arise later on it would be reconsidered.

MR. MELHUISH considered the statement presented a reasonable one; there would be acceptance of it in the country generally.

MR. G. SHAW, seconding reception of the report, asked whether it was clear that members were limited to £1 1s. for one night. MR. HIRST said it was an injustice to Scotland. MR. HOWELLS asked what would be the total cost, and MR. WELLS said it would be between £300 and £400 a year, in addition to the present allowance for fare.

Mr. G. Hughes said that, if the principle were established of paying £1 1s. for one night, in his view the payment should be available for both nights. The President pointed out that the Branch could help. Replying to Mr. Heseltine, who asked whether the resolution in question had come from Bradford, or whether it came from the conference, Mr. Wells said that it was a conference resolution.

A resolution had been received by letter from the Bradford Branch to the effect that the Branch considered it reprehensible that delegates duly appointed to attend the Branch Representatives' meeting should not be reimbursed to the extent of their reasonable subsistence and unavoidable hotel costs, additionally to the third-class rail fare at present proved.

Mr. W. S. Howells said that while he was in complete sympathy with individuals who came to Council meetings having their expenses paid, he recalled a recommendation from the Organisation Committee some time ago that the allowance made to branches should be increased by 6d. or 1s. per head. That was to encourage the activity of the branches, and he wondered whether the branches should not be encouraged to help in the expenditure of their delegates. Already complaints were being received because of the increase in fees, and it would appear that, instead of being able to reduce those fees, it would be necessary to make application for an increase. It was becoming rather a vicious circle, and he hoped that members would take a realistic view of the position when asked to increase expenditure in all directions. Mr. Heseltine said that if there were to be a cutting of expenditure, he hoped it would not start with members. Those who came from North, South, East and West and stayed in London found it an expensive matter. Mr. G. Hughes said he did not think that it was generally known up and down the country that branches could pay delegates out of their funds. In any case, it amounted to the same thing, because if the funds of a branch were depleted, head office made it good.

Praise for Librarian

The report of the Establishment Committee, presented by Mr. Granville Shaw, recommended that the salaries and wages subcommittee should be constituted of the president, vice-president, treasurer, and the chairman of the Establishment Committee. Mr. Shaw said he desired to congratulate the librarian on the excellent way in which she kept the library up to date. The report was received.

Scottish Department

A communication was received from Dr. McCall (Assistant Resident Secretary in Scotland) forwarding a request from the North British Executive that the Council should rescind the resolution of 1886 referring to the Society's headquarters in Scotland, and replace this by a by-law. The Executive asked that, if the by-law could not be passed without a considerable lapse of time, immediate effect should be given by resolution to the change of name from "North British Branch" to "Scottish Department."

Mr. A. A. Meldrum said that the Council was more or less agreed on the change of name, which was among the changes sought in the draft revised constitution of the Society. The request was carried into effect by a decision to replace the words "North British Branch" wherever they occurred in the resolution of 1886 by the words "Scottish Department."

Reconstitution of the College

A letter was received from the University of London announcing that the Court of the University had concurred in a resolution of the Senate approving the memorandum and articles of association for the reconstitution of the College of the Society. The Secretary said that it only remained to carry through the formality of registering the new College under the Companies Acts. The College would thereupon become a separate entity.

Measuring Spoons

In the report of the Codex Revision Committee, presented by The President, it was stated that objections raised by the Society in connection with standards for cooking spoons (teaspoon, 100 min. and tablespoon, 300 min.) had been considered by the appropriate committee of the British Standards Institution, which had suggested introducing additional standards for a set of medicinal spoons (teaspoon, 60 min., tablespoon, 240 min.); these would be stamped "medicine spoon," and the four spoons (two cooking and two medicine) would be issued as a set. On the Codex Revision Committee's recommendation the Council agreed to co-operate with the B.S.I. in setting up the proposed standards.

CORRESPONDENCE

The Elections in Scotland

SIR,—It is greatly to be regretted that so much apathy exists in our ranks, when it comes to the election of candidates. In the recent election of the North British Executive, 2,961 papers were issued and only 723 valid papers—about 25 per cent. —were returned. Is the method of nomination wrong? Could any other method be adopted? Why do the branches not choose suitable candidates and bring these before members for adoption? If this was done the election might prove more interesting and instead of the present haphazard system of more or less shutting your eyes and sticking a pin into the paper and taking pot luck, a more rational system would be evolved.

SCOTTISH CHEMIST.

Comparative Rewards

SIR,—I have just returned from a visit to Inversnecky. Getting off the train at the village railway station, the platform porter took my bag. In his eight-hour day, he said, he had four trains to pass through, each with a three minute stop. An hour covers all work entailed with the four trains. Sometimes no one goes on, sometimes no one comes off. He was chatty and told me that he had a good living wage, his responsibility nil, a fortnight's holiday with full pay, and that he got paid whether there were any passengers or not. He received free uniform and had no overheads at all. In between trains, as a sideline, he did gardening for people near the station. I gave him a shilling to put beside the rest of an income entirely untaxed. In the village street, I entered the chemist's shop, where I found the pharmacist busy making up a test prescription. I noted that the shop carried a comprehensive stock of drugs, proprietaries, etc., together with some odd non-chemist lines. Like the late lamented Little Audrey I laughed and laughed and laughed, because I knew that here was a man who gave unstinted service to the community; who had had to put in four years' training before he could sit his professional examination; who handled (and incidentally was the only person relied upon by the Government to handle) Dangerous Drugs and Scheduled poisons; who had to dispense with the utmost care minute quantities of powerful drugs; who had to take the responsibility of dispensing an overdose, even if written by the doctor, and the Minister of State for Scotland was so appreciative of all these things, among others, that he made the handsome gesture of offering him 1s. 3d. per prescription. Handsome is as handsome does. No wonder Continental pharmacists laugh at us when we speak of ourselves as being chemists.

Yours faithfully,

St. Andrews. A. W. KEITH.

MESSAGE ON TOILET PREPARATIONS DECONTROL

IN a letter to members on the occasion of the decontrol of toilet preparations (see *C. & D.*, July 3, p. 1), the chairman of the Toilet Preparations and Perfumery Manufacturers' Federation of Great Britain, Ltd. (Mr. A. J. E. Madden), refers to the period of control as "eight of the most momentous years in the history of our industry." He reviews "the early quota racketeering, the successive attempts to check evasions and the infamous black market, the introduction of concentration of industry, and latterly, the gradual steps leading towards the restoration of liberty," but claims that looking back, the control, coupled with the concentration policy, can be claimed to have enabled the industry to make a useful contribution to the war effort and to "hold on" during those difficult years. Out of that greater co-operation developed the new, strong Federation, "fully representative of the industry and truly democratic in constitution." The Federation looked forward to a life of increasing service to members individually and to the industry as a whole. The industry would even without direct control necessarily be in constant contact with the Government and must continue to be able to speak through the Federation with a united and representative voice. The many raw material controls would remain, and it would be the Federation's duty to work to secure the best possible allocations, and to ensure wherever possible that the Federation distributes the allocations. The Federation's future programme would entail a great deal of work on price control, profit and advertising control, purchase tax, and trade marks.

The vital question was export. The industry had pledged itself to a difficult export target, and he urged members to keep pegging away. The change from a buyer's to a seller's market was a challenge to enterprise and persistence.

ESSENTIAL OIL IMPORTERS

THE annual meeting of the Essential Oil Importers' Section of the London Chamber of Commerce was held on July 1. Mr. K. C. Allen was in the chair and welcomed Mr. L. C. Pickering (Ministry of Food) who had been invited to the meeting. In outlining the work of the year, THE CHAIRMAN said that he had hoped that he would be able to report that the Essential Oils Control Scheme had been fully wound up, and it was therefore a matter of regret that there were still twenty-two oils within the scheme. It was understood from the representatives on the Essential Oils Advisory Committee that the question of further decontrol had engaged the attention of the authorities for some considerable time but that there were serious problems to be overcome before final decontrol could be achieved. The Committee had decided to communicate with the control authorities expressing concern at the delay. In reply, Mr. Pickering had written explaining the position. The Committee would continue to watch the position and he was sure that the importers' representatives on the Essential Oils Advisory Committee, Mr. Wheeler, Mr. Ennever, Mr. Evans and Mr. Naumann, would take whatever steps were possible in the interests of members.

Strength of Containers

The question of leakage of essential oils in transit had been considered following a decision by one of the public carriers to handle consignments of essential oils at owners' risk only. The Committee felt that in regard to Italian and Sicilian oils the tins and cases used were not sufficiently strong to withstand the large amount of handling involved. The Section had requested the Ministry of Food to insist upon stronger cases being used. The Ministry had replied, however, that they were satisfied that containers of sufficient strength were being used and that the number of leaky cases was very small. The Ministry had been asked to give some evidence of the actual weights when containers left the wharf and the Section had submitted that claims for losses should be borne by the Ministry. The Section's argument in this connection was that some tins and cases did not contain the net quantity of oil as invoiced by the Ministry and that a claim under transit insurance was almost impossible to establish because tares were not shown and the gross weight when the consignment left the wharf was not necessarily indicative of the net content. The Ministry's reply was that a careful scrutiny of consignments was made and only sound cases passed for delivery. Very few claims for short weight had been received, and when these were proved against the Ministry they were promptly settled. The Ministry could not, however, accept responsibility for loss in weight through careless handling during transit by the railways or haulage companies. It had been pointed out that the Ministry's prompt settlement of admitted claims had never been questioned at any time. The point at issue was that it was very difficult and at times impossible to prove claims. The Ministry had replied that it would be prepared to investigate specific instances.

Assay Standards Proposal

During the year the Section had been invited by the British Standards Institution to express an opinion on the setting up of a British national committee to examine proposals for the establishment of internationally agreed standard methods for the analysis of essential oils. The Committee had decided to support the setting up of such a committee.

After the chairman had presented his report, MR. PICKERING gave a short summary of the general situation. He said that it had been a matter for regret that the optimism felt a year ago at the possibility of de-scheming all remaining controlled oils except those supplied from hard-currency sources had not been justified. This had been due to the marked changes in the trading situation during recent months.

Officers and Committee

Mr. T. J. McArthur (W. H. Hobbs & Co., Ltd.) was unanimously elected chairman of the Section for the ensuing year in succession to Mr. K. C. Allen, who had completed his term of office under the rules and to whom the meeting expressed a hearty vote of thanks for his past services. The retiring members of the Committee were re-elected, namely, Mr. L. Naumann (deputy chairman), Dr. P. C. C. Isherwood, O.B.E., and Mr. J. R. A. Evans. In addition, Mr. A. H. Samuelson and Mr. V. J. Tilley were elected to fill the remaining two vacancies.

BRITISH HERB CROP REPORTS

Perks & Llewellyn.—A good crop of LAVENDER is anticipated. The plants escaped damage from frost during the winter and from recent heavy storms and are in good condition. The flower heads are well advanced and the harvest should be early.

Herb Farm, Ltd. — There was some frost damage to LAVENDER but the crop shows promise. Owing to the mild winter, SAGE is good. MARJORAM and SAVORY are average. THYME is apt to flower before much growth is made owing to the early drought. MINT is fair.

W. J. Bush & Co., Ltd.—The Surrey and Kent crops of PEPPERMINT are looking very well. The recent rains have done much good, but warm sunshine is now required to ensure a good crop. Peppermint is still scarce. Some plants have been grubbed up and there does not appear to be any increase on the 1947 acreage. LAVENDER.—This is very scarce and plants have been grubbed up from disease. Very little in the way of new plants has been planted and the flowers will mainly be bunched for market. CHAMOMILE.—Total acreage is very small but it is in excellent condition.

Bruce, Starke & Co., Ltd.—Until recent rains the crop of CHAMOMILE was very backward, and it looked as if the growth this year would be retarded. Since the heavy June rainfall, however, the growth has been satisfactory, and we anticipate an average yield this season. However, we were able to plant out a few more acres and hope within the next year or two to be able to increase our acreage to approximately that which we had pre-war. LAVENDER.—This is looking very well indeed and we anticipate a larger than normal yield this year. ANGELICA.—This is growing well, but acreage is still small, and here again we hope to increase it within this next year or two. PEPPERMINT. —The plant this year is very healthy and we anticipate normal yield.

Duncan, Flockhart & Co., Ltd.—Dry and cold weather during the seed-sowing period resulted in slow germination, so that harvesting may be a little later than usual in the case of annuals and first-year biennials. ACONITE.—Plants are looking well and the crop should be up to average. BELLADONNA.—Established plants are in good condition and one crop of leaves has already been harvested. Young plants of this season's sowing are very small. DIGITALIS.—An average crop is expected. HYOSCYAMUS.—Harvesting will be later than usual, but given some warm weather should give a yield almost up to average. STRAMONIUM.—This hardier plant has withstood the cold season better, and a fairly good yield is expected. VALERIAN.—A better crop than last year is anticipated.

Joseph Flemons & Sons, Ltd. — The season has opened with rather cool, dull weather, accompanied by periodical considerable rainfalls. Despite the lack of the usual hot June sunshine, most herbs seem to be moderately plentiful. Good supplies are expected of (*inter alia*) BROOM, BURDOCK HERB, WILD CARROT, COMFREY HERB, DIGITALIS, CHERRY LAUREL, ELDER FLOWERS, MALE FERN, MEADOWSWEET and YARROW. A fair crop is expected of WHITE BRYONY, COLTSFOOT HERB, DANDELION ROOT and ELDER BERRIES. Reasonable supplies are available of "fresh" HEMLOCK, which was obtained early in the year. Other medicinal and culinary herbs which should yield fair crops are RASPBERRY LEAVES, SAGE and TANSY. Only limited supplies will be available of BUCKTHORN BERRIES, COLCHICUM CORMS, PARSLEY PIERT and RED POPPY PETALS. A number of herbs such as EYEBRIGHT, MOUSEAR, PELLITORY, SKULLCAP, WOOD BETONY and WORMWOOD will be scarce this season. The demand for medicinal herbs seems rather smaller than usual. The acreage under MARJORAM and THYME has been very much reduced.

William Ransom & Son, Ltd. — The weather this season has, on the whole, been favourable for the growth of our chief medicinal crops. ACONITE.—We have a small plantation. Demand for this crop is falling. BELLADONNA.—We have about seventy acres under cultivation and are now harvesting an exceptionally clean crop. The yield will be slightly above average. This year's plantations have made slow growth owing to drought and insect pests in the early spring. BUCKTHORN BERRIES.—The crop will be collected in the autumn and we hope to be in a position to meet the demands of our usual buyers. CHAMOMILE.—Our plantations have grown well this year but actual yield of oil will depend upon weather conditions when the crop is cut in July. COLCHICUM.—We have a small plantation but the demand for English corm and seed is falling. DANDELION ROOT.—Collection begins in August. We have a small carry-

over from last year's collection. DIGITALIS.—An average crop We hold good stocks of powdered leaf (B.P.). ELDER FLOWERS.—We are now gathering this crop. So far it has been disappointing owing to weather conditions making collection difficult. HEMLOCK.—We have again reduced our acreage owing to the small demand. HENBANE.—An average second year crop. First year plants are looking well. The recent wet weather has helped this crop. LAVENDER.—We have increased our acreage. The crop looks promising but the yield of oil will depend upon weather conditions at the time of cutting in August. LETTUCE.—An average crop. We hold good stocks of the extract. PEPPERMINT.—It is rather early to give an opinion of this crop. This year's plants have been badly attacked by wireworm and may be a complete failure, but the older plantations are making good growth. POPPY PETALS.—Collection has just begun. There is a good demand for the preparations made from the petals. RHUBARB.—The crop is growing well and we hope to have adequate supplies in the autumn. ROSEMARY.—We are building up a plantation and there should be sufficient for distillation next year. VALERIAN.—We have a small plantation showing average growth.

Stafford Allen & Sons, Ltd.—After the exceptionally mild winter and the very favourable conditions that we had this spring, the majority of the crops got away to a good start. BELLADONNA.—This is an exceptionally good crop this year. We have just completed our first cutting and all the leaf is of excellent quality and colour. By the end of September we hope to have cut a heavy tonnage. It is by far the finest crop for many years. BROOM TOPS.—We have collected again this spring a few tons of good quality tops, which will be used in the manufacture of sparteine sulphate. CHAMOMILE.—The very mild winter suited this and we have every hope of a bumper crop this year. It is a long time since we have seen the plants looking so well. CLARY SAGE.—We have very little to offer this year, although what there is will be of good quality. The very severe winter of 1947 killed off a lot of our plants and it will be a year or two before we can get back to normal. DILL.—Only an average crop and we expect to get about two-thirds of the oil we produced last season. DIGITALIS.—At present this shows signs of being a very good crop and it is well above the average for the time of year. Favourable conditions in the spring enabled us to get our plants set in good time. DIGITALIS LANATA.—This is somewhat patchy this year, but the plants look healthy and are coming on well. ELDER FLOWERS.—We expect to make a good collection and supplies should be plentiful. HYOSCYAMUS.—Second year plants have come on exceptionally well and we have just finished cutting the best crop for years; it is of excellent quality and colour. First year plants are coming along nicely but will not be quite up to last year's standard. LAVENDER.—Supplies will not be very plentiful this year as we have had to move all our bushes and slips to fresh ground and we are still building up our supplies. POPPY PETALS.—These seem to be growing in abundance this year and we hope to have a good collection. PARSLEY.—We have every prospect of a very fine crop for rubbed parsley and will have plenty to offer in the autumn. PEPPERMINT.—A limited supply is available this year. Plants have got away to a good start and we hope to have a considerable acreage next year.

(To be concluded.)

HERB CULTIVATION IN HOLLAND

A MODERATE but growing interest is being shown in herb growing in Holland. Areas under cultivation at present are in the province of Friesland and in the northern part of the province of Gelderland; preparations have also been made to commence cultivation this year in the province of North Brabant and South Gelderland, at Gemert and Wijchen. Area under cultivation in Friesland totals about 190 acres, and in Gelderland about 125 acres. At present, in its early stages, herb cultivation is something of a side-line to farmers. Yet certain herbs can prove more profitable than some standard crops (such as potatoes and rye), and they partially solve some of the economic problems of the smaller Dutch farmers. Drying is costly, since gradual and even drying is essential to the preservation of the active properties of the herbs. On account of the high costs of plant, drying is likely to be carried out on a co-operative basis. To promote cultivation the Netherlands Government has granted a subsidy for the building of a drying installation in Friesland and another in Gelderland; it is expected that they will be completed this year. The result of correct drying as against the gathering of wild herbs in other Continental countries may enable Dutch producers to meet foreign competition.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, July 7

An increase in the volume of inquiry from home-trade buyers during the past week is thought in some quarters to be the herald of a general improvement in trade. It is evident that some consumers who carried large stocks over from last winter are now re-entering the market. Prices of Pharmaceutical and Fine Chemicals show little change, and although the export call is well maintained, increased competition is now being faced from foreign producers.

The markets for Crude Drugs have continued quiet. In many instances reasonable bids from buyers now stand a good chance of acceptance. Among the products now offering at slightly lower prices are Cape Aloes, Peru and Tolu balsams, Gentian, Indian Podophyllum and Quillaia. Gum acacia is steady. Prices of Ipecacuanha on the spot are unchanged but the forward market is inclined to be firmer. Reports from Belgium say that there should be a good crop of Chamomile flowers and that prices are not expected to exceed 6s. per lb. At present no further licences are being granted for the importation of Liquorice juice from Italy and Turkey, but applications will be entertained for licences for imports of this product from Syria, Iran and Iraq. These should be addressed to the Chocolate and Sugar Confectionery Division, Ministry of Food, Stanmore, Middlesex.

A routine business has been done in Essential Oils at previous prices and the market has been without any special feature.

U.S. Drug and Chemical Report

New York, July 2

Production of Glycerin in May was down by 96,000 lb. on the previous month's output at 15,482,000 lb. The lower output is attributed to reduced operations in the soap industry. Stocks of crude material at the end of the month were below the wartime "safe level" of 50,000,000 lb. (at 49,763,000 lb.) but the flow of synthetic material is expected to preclude any real shortages. Interest in Menthol remains very limited and a recession in the recently advanced price level is expected—especially as shipping prices from Brazil have been reduced by about $1.50 and Chinese exporters are apparently seeking bids. A new arrival of about 1,500 flasks of Mercury from Japan has brought total receipts of imported metal for the first half of 1948 to the record level of 25,000 flasks.

Activity on the Crude Drugs market was again very limited, although some items showed firmness or tightness; Calumba, Ipecacuanha, Dandelion and Valerian roots were all in this category, while Cardamoms were advanced sharply in price as a result of scarcity of supply. Bleached bold cardamom was advanced 8 cents per lb. to $2.03-2.05 per lb., while decorticated Guatemalan seed was raised 25 cents per lb. to $1.50-1.55. Declines in prices on Mace and Nutmegs are traced directly to the recent downward revision of export taxes in the Netherlands Indies. The new tax is 3 per cent. whereas it was formerly 20 per cent. East Indian mace was reported down by seven cents per lb. at $1.28-1.30 per lb. and nutmegs by four cents at 54-55 cents.

Citronella, Sandalwood and Spearmint were all lower last week in an exceedingly inactive Essential Oils market. On the other hand, distilled Mexican Lime oil was higher following reports of damage to the new crop. The increase in lime oil brought quotations to as high as $5.00 per lb., although the inside price remained at $4.00. Demand is still very disappointing, however, according to dealers.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	July 7th
*Alexandria ...	Piastres to £	97¼—97⅜
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Pence to rupees	1-5 15/16—1-6 1/16
Brussels	Francs to £	176½—176¾
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
Dutch West Indies	Florins to £	7.59—7.51
*Hong Kong ...	Pence to $	1-2 15/16—1-3 1/16
Lisbon	Escudos to £	99.80—100.20
Montreal	Dollars to £	4.02⅞—4.03¼
New York ...	Dollars to £	4.02⅞—4.03¼
Oslo	Kroner to £	19.98—20.02
Paris	Francs o £	863.4—864.6
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Pence to $	2-4 1/16—2-4 1/16
Stockholm ...	Kronor to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates

Pharmaceutical Chemicals

Acetic acid.—The controlled maximum prices per ton are: B.P. (33 per cent.), 1 ton or over, £36; 10 cwt. but less than 1 ton, £37; 4 cwt. but less than 10 cwt., £38, delivered buyer's premises. 80 per cent., pure, is £30 per ton and 98-100 per cent. (commercial glacial), £43 per ton more than the rates for B.P. For deliveries of less than 4 cwt. there is no maximum price.

Acetomenaphthone. — Quotations are from 1s. to 1s. 6d. per gm., as to quantity.

Aloin.—Current quotations are around 24s. per lb.

DIGITALIN, B.P.C.—Current quotations are from 9s. to 11s. 6d. per gm.

DIGITOXIN.—Current quotations are in the region of 110s. per gm.

EMETINE.—Makers' rates per oz. are as follows: HYDROCHLORIDE, 1 oz., 202s.; 4 oz., 195s.; 16 oz., 192s. 6d.; 32 oz., 190s. BISMUTH IODIDE, 1 oz., 101s. 6d.; 4 oz., 100s.; 16 oz., 98s. 6d.; 32 oz., 97s.

EPHEDRINE.—Quotations for the ALKALOID are at from 10s. 6d. to 12s. per oz., as to quantity and seller. HYDROCHLORIDE is quoted at from 7s. 3d. to 8s. and SULPHATE at 8s. to 8s. 6d. per oz.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gm. in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.: 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb.) per lb. Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENAZONE.—Nominal prices are from 32s. 6d. to 35s. per lb.

PHENOL.—Maximum price for crystals in the home market is 11d. per lb., in 1-ton lots in drums (returnable), delivered.

POTASSIUM ACETATE, B.P.—Fine granular is 2s. 1½d. per lb. in 1-cwt. lots.

SALICYLIC ACID.—Makers' quotation for 1 cwt. is 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

SALICYLSULPHONIC ACID.—Makers' quotation for this reagent is 15s. per lb.

SODIUM ALGINATE.—Current rates per lb. are as follows: 7-lb. lots, 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

STEARATES.—Current rates per cwt. in 1-cwt. lots, are as follows: ALUMINIUM, 235s. 6d.; CALCIUM, 217s. 6d.; MAGNESIUM 237s. 6d.; LEAD, 240s. 6d.; ZINC, 222s. 6d 5-cwt. lots are 2s. 6d. per cwt. less and 1-ton lots 7s. 6d. less per cwt. than above prices. Carriage paid in U.K.; packing free.

Crude Drugs

ACONITE.—Spot supplies of Indian root quoted at 300s. per cwt.

AGAR.—No. 1 strip is quoted from 19s. to 20s. per lb.; for shipment, 15s. to 16s., c.i.f.

ALOES.—Only a small business. Merchants offer Cape at 140s. per cwt., forward, 132s. 6d., c.i.f. Curaçao in boxes is quoted at 210s. per cwt., shipment, 200s., c.i.f. Socotrine is offered at 160s. to 180s. per cwt., spot.

BALSAMS. — *Canada* is nominal at 21s. 6d., spot. Pará *Copaiba*, soluble, is valued at 5s. per lb., spot. *Peru*, San Salvador, 5s. 6d., duty paid. *Tolu*, 18s. per lb., spot.

BAY LEAVES.—Quotations are unchanged at 11d. to 1s. per lb., duty paid.

BUCHU.—New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

GUM ACACIA—Kordofan cleaned sorts, steady at 65s. per cwt., ex store, London; shipment, 60s., c.i.f. Bleached No. 1, 135s., ex store; to arrive, 120s., c.i.f. Talha, 45s., ex warehouse, 42s., c.i.f. Imports in May totalled 24,768 cwt. (£73,320).

HONEY.—Agreed rates per cwt. for Australian or Jamaican honey, for manufacturing purposes, are as follows: In original packings (56-60 lb. tins for Australian or 3½-cwt. barrels for Jamaican), for quantities of 10 cwt. or more, 96s.; less than 10 cwt., 105s., net, carriage paid. Refined repacked honey is available at the following rates per cwt.: In 7-14 lb. tins, 145s.; 28-lb. tins, 130s.; 56-lb. tins, 120s., carriage paid, subject to wholesale discount of 8½ per cent.

IPECACUANHA. — Spot quotations are around 24s. 6d. to 25s. per lb.; Nicaraguan afloat is 23s., c.i.f.; for shipment, firmer at 21s. 6d., c.i.f.

LANOLIN.—B.P. ANHYDROUS is quoted at £120 per ton; SUPERFINE, £130; B.P. HYDROUS, £105, delivered in U.K.

LIQUORICE.—Anatolian natural root on spot is offering from 47s. to 50s. per cwt., as to holder; Syrian, 45s. Italian block, 375s. per cwt., spot; Italian stick, £385 to £525 per ton, as to quantity and grade. Turkish block is available at from 240s. per cwt.

MACE.—West-Indian blade, on the spot, is quoted at 7s.; pickings, 4s. 6d. to 5s. 6d. per lb., according to quality.

MENTHOL.—Brazil on spot is offered at from 46s. to 50s. per lb. May landings totalled 9,232 lb. (£18,385).

MERCURY.—Spot quotation continues unchanged at £15 per flask, ex warehouse; for shipment, £14, c.i.f. U.K.

MYRRH.—Aden sorts, £13 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

PODOPHYLLUM.—American (*peltatum*) is offered spot London at 300s. per cwt., duty paid; Indian (*emodi*) is quoted at 320s. to 340s. per cwt.

PSYLLIUM SEED.—French black, 2s. 3d. per lb., duty paid; Indian (isphagula), 120s. per cwt., spot.

QUASSIA.—Price of chips is unchanged at 37s. 6d. per cwt., spot.

QUILLAIA.—Natural bark is offering at about 105s. per cwt., spot.

QUINCE SEEDS.—Cape on spot is quoted at from 4s. 3d. to 5s. per lb.

SEEDS.—ANISE.—Cyprus is quoted at 1s. 6d. per lb. and Turkish at 1s. 6d. per lb., duty paid spot London. CARAWAY.—No demand. Dutch, spot London, is offered at 11d. per lb., duty paid. CELERY.—Sellers of Indian are asking 1s. 3d. per lb., spot London or Liverpool. CORIANDER.—In poor demand. Sellers of Argentine are quoting 43s. per cwt., duty paid, spot London. Splits offered at 32s. 6d. per cwt., duty paid, spot London or Liverpool. CUMIN.—Indian is offered at 212s. 6d. per cwt., spot Liverpool; Cyprus is unchanged at 212s. 6d. per cwt., spot London. DILL.—Very few inquiries during the past week. Indian is quoted at 47s. 6d. per cwt., spot London, and 46s. per cwt., ex store Liverpool. FENNEL.—Quiet. Indian is 72s. 6d. per cwt., spot London; 70s. per cwt., ex store Liverpool. FENUGREEK.—Indian unchanged at 47s. 6d. per cwt. in London, and 45s. now asked, ex store Liverpool.

SENNA.—Tinnevelly leaves on the spot are quoted as follows: No. 1, 9d. to 1s. per lb.; No. 2, 8d.; No. 3, 5½d. Tinnevelly pods, hand-picked, 9d. to 1s. 4d.; manufacturing, 5d. to 5½d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb., Alexandrian leaves, 1s. 2d. per lb., f.a.q.

TURMERIC.—Market quiet. Madras finger, spot, 110s. per cwt.; new crop, shipment, 90s., c.i.f.

WAXES.—The spot market remains quiet. BEES'.—Dar-es-Salaam on spot is offered at 335s. per cwt.; shipment, 295s., c.i.f. Lindi is quoted at 330s., spot, and 290s. per cwt., c.i.f., forward. Benguela, 345s. per cwt., duty paid; in bond, 315s.; shipment, 300s., c.i.f. CANDELILLA.—Spot, 385s. per cwt.; shipment, 375s. CARNAUBA.—Prime yellow is quoted at 650s. per cwt.; shipment, 610s., c.i.f. Fatty grey on spot, 415s. per cwt.; afloat, 405s., c.i.f.; for shipment, 400s., c.i.f. Chalky grey, 415s. per cwt., spot; shipment, 390s., c.i.f. MONTAN.—Reibeck, 300s. per cwt., spot, and Czechoslovak crude, 265s. OURICURI.—7.5 per cent., 375s. per cwt., spot; 1 per cent., 410s., spot, and shipment, 395s., c.i.f.; 5 per cent. shipment, 370s., c.i.f. SPERMACETI.—Quoted at 3s. 6d. per lb., spot.

Essential and Expressed Oils

ALMOND.—Sweet oil, 8s. to 9s. per lb. Bitter essential oil is quoted from 30s. to 45s. per lb., as to quality and seller.

ANISE.—Chinese star, in drums, 5s. 6d. per lb.; for shipment, 5s. 6d., c.i.f.

APRICOT KERNEL.—Dealers are quoting 7s. to 7s. 3d. per lb., as to quantity.

BAY.—West Indian is offering at 7s. 6d. to 8s. 6d. per lb., spot.

CAMPHOR.—White oil on the spot is quoted at 2s. 9d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported oil, 28s. to 30s. per lb.

CITRONELLA. — Ceylon is offering at 3s. 6d. per lb., spot, and 3s. 3d., c.i.f. Java on spot is 7s. per lb.; forward, 5s. 6d., c.i.f.

CLOVE.—Quotations for English-distilled bud oil are from 11s. to 12s. per lb.

LAVANDIN.—Business quiet. Spot quotations are from 9s. to 11s. 6d. per lb.

LAVENDER.—French, 38-40 per cent., is quoted at 21s. to 24s., spot; 40-42 per cent., 24s. to 25s. Spanish (spike) is steady at 9s. to 11s. per lb., spot.

LEMONGRASS.—Offered at 5s. 9d. per lb. for original containers, with up to 6s. 6d. asked for smaller quantities; forward, 5s. 4½d., c.i.f.

LIME.—West Indian is quoted at 27s. 9d. to 30s. per lb., as to holder and quantity.

NUTMEG.—English-distilled oil is priced at from 39s. to 40s. per lb.

OLIVE.—The price to wholesalers charged by members of the Importers' Association is 29s. 8d. per gall. of 9 lb. May landings totalled 5,777 cwt. (£87,643).

TEASEED.—Supplies are very low; price unchanged at 60s. per gall.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 8s. to 8s. 6d. per lb., according to quantity.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

World Mineral Industries

No. 5—Borates

THE following table gives principal producers of borates and their output (in long tons) of crude material.

PRODUCING COUNTRY	1938	1941	1944
Italy (boric acid) ...	6,098	(*a*)	(*a*)
U.S.A. (borates) ..	192,555	269,002	247,845
Argentine (calcium borate)	6,598	13,546	5,471
Turkey (borates)	3,999	2,155	408

(*a*) Information not available.

TRADE MARKS

(*From "The Trade Marks Journal," June 23*)

"ALPHEXANE" and "DELTEXANE"; by Imperial Chemical Industries, Ltd., Slough; 660,398-99 and 660,430-31. For industrial and agricultural chemicals, etc. (1), pharmaceutical and sanitary substances, insecticides, etc. (5).

"ALTRA" on cross device; by Altra, Ltd., London, W.1; 643,716. For toilet preparations for the bath, perfumes and dentifrices (3).

"STANOLENE"; by Stanley's, London, W.C.2; 654,667. For non-saponaceous hair lotions (3).

"BERYLSHEEN"; by Beryl Cosmetics, Doncaster; B658,930. "GRANDEE"; by Goya, Ltd., London, W.1; 659,563. "LA BOUTIQUE FANTASQUE"; by Uni-Products (London), Ltd., London, W.1; 658,316. "VASELINE" and device of hand holding flowers; by Chesebrough Mfg. Co., Ltd., London, N.W.10. For non-medicated toilet preparations, cosmetics, etc. (5).

"PYGMALION"; by Salo David Rand, London, W.1; 660,612. For lipsticks and lipstick cases (3).

"SWEX"; by H. Russell (Soaps & Disinfectants), Ltd., Kirkby; 660,078. For dust-laying disinfectants (4).

"BENTRO" in distinctive lettering; by King & Hudson, Ltd., Coventry; 647,496. Device of ship passing through Tower Bridge; by Carmel Exporters and Importers, Ltd., London, E.C.3; 658,581. "RETRODAL"; by Ashley & Weeks, Ltd., London, S.W.17; 669,421. For pharmaceutical preparations (5).

"ARALEN"; by Winthrop Products, Inc., New York; 651,147. For anti-malarial preparations (5).

"SALEPSI"; by Laboratoires Sapos, S.A., Geneva; 652,769. For pharmaceutical preparations for use in the treatment of nervous disorders (5).

"GAGS"; by W. James Davies (Western), Ltd., Cardiff; B656,638. For medicated bronchial lozenges (5).

"RENASAL"; by Bayer Products, Ltd., London, W.C.2; B656,784. For diuretic preparations (5).

"ARGYPULVIS"; by A. C. Barnes Co., New York; B658,189. For pharmaceutical compounds in powder form for vaginal use (5).

"BABYTOWN"; by Alexander Carus & Sons, Ltd., Darwen; B658,810. For surgical lint (5).

"ARALBAN"; by Crown Chemical Co., Ltd., Tonbridge; 658,891. For pharmaceutical preparations for veterinary use (5).

"PENZOLE"; by Hirst, Brooke & Hirst, Ltd., Leeds; 658,935. For medicated powders, other than snuff, for use by snuffing or insufflation (5).

"SENOKOT"; by Westminster Laboratories, Ltd., London, W.C.2; 659,157. "SWEET LIPS"; by Thomas Kerfoot & Co., Ltd., Bardsley Vale, Lancs; 660,179. For all goods (5).

"CORMAR"; by Stanley Marsden, Wigan; 660,349. For pharmaceutical substances for veterinary purposes, sanitary substances, etc. (5).

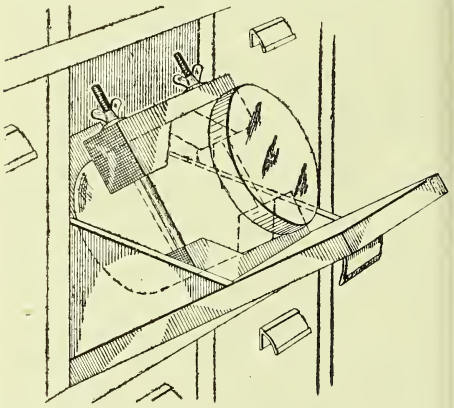
"BAUME DALET"; by Wilsons Chemical Products, Ltd., London, S.W.4; B660,359. For medicated ointments (5).

"HELUX"; by Tellux, Ltd., London, W.8; 660,194. For electro-medical apparatus (10).

AIDS TO EFFICIENT DISPENSING

A "PILLORY" FOR OINTMENT JARS

THE storage of bulk stocks of ointments for dispensing is often literally a sticky problem. A method that ensures ease of handling and a minimum of mess is suggested in the illustration below. It is based on specially designed fittings in the pharmaceutical department of the Westminster Hospital, London, but with ingenuity a nest of dispensary drawers might



be adapted to the same purpose. The door of each compartment is hinged at the base so that it can swing open downwards, with stops to allow it to rest at an angle of about 70°. Across the inside of the door, half-way down, is screwed a wooden block, square at the ends and hollowed out in the centre. On two steel rods, one projecting from each end of the block, slides another wooden block, similarly hollowed, so that the two together look something like a pillory. The ointment jar is placed between the hollowed portions of the two blocks and, when the two wing nuts are tightened, is held firmly in position. The device may be adapted so that two or three small jars instead of one large one are stored in each compartment.

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That Envy can't confine them under Stone.
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—Epitaph on Lockyer, a seventeenth century pillmaker, quoted by E. V. Lucas in "A Wanderer in London."

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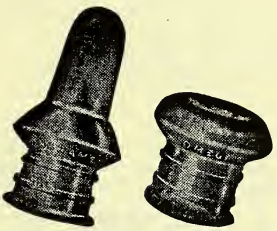
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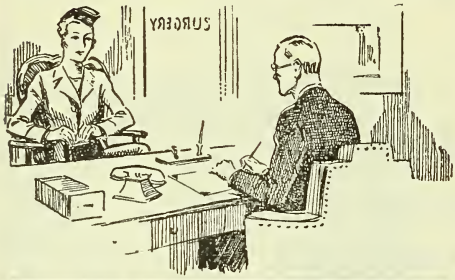


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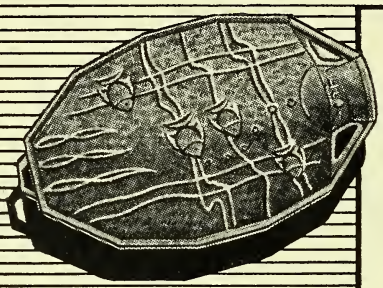


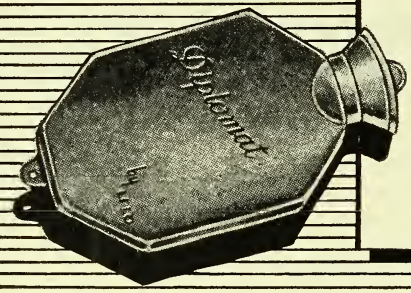
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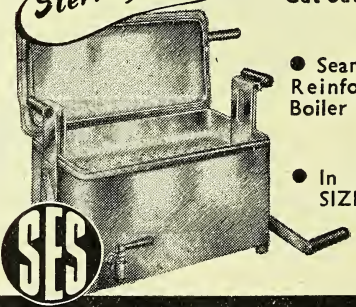
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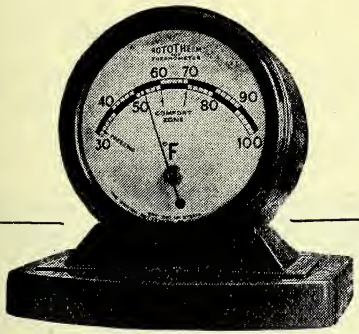
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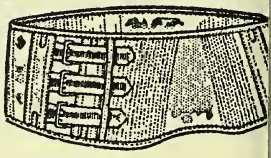
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SUMMER brings a host of uses for Elastoplast E-L-A-S-T-I-C adhesive plasters. Every sport leaves a trail of minor injuries for which these comfortable plasters are valuable. You'll need them in addition to supplies of Elastoplast First Aid Dressings.

Elastoplast E-L-A-S-T-I-C plasters have the same quality cloth, the same adhesiveness, the same flesh colour as Elastoplast Dressings. They reach you in effective display outers. Give them prominent counter space—they are quick sellers. Be ready for the summer rush.

And don't forget to feature ZOFF (Plaster Remover and Skin Cleanser) with your Plaster and Dressings Display. It's a good profit making extra.

Elastoplast
TRADE MARK
PLASTERS

ANOTHER SMITH & NEPHEW PRODUCT

Awarded the Certificate of the Royal Institute of Public Health and Hygiene



Grip-tight
Quality **FEEDTEATS**

Used by Hospitals, Clinics and Welfare Centres

Attractive samples and packings await World Trade enquiries

LEWIS WOOLF, LIMITED
144 Oakfield Rd., Birmingham, 29, Eng.

(855)



TROUBLE-FREE SERVICE

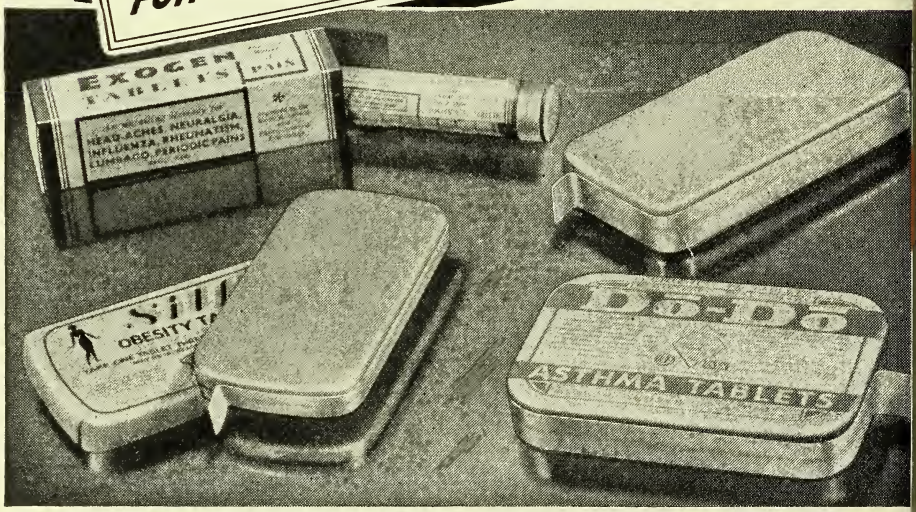
No longer are our trader friends hindered by bottle shortages and charged and returnable cases. Our bottles and cartons, in ample supply, are not charged and are non-returnable. We are pleased to offer you this swift, sure and trouble-free delivery service

ROBERTS WINDSOR SOAP CO LTD

WINDSOR ENGLAND

By Appointment Toilet Soap Manufacturers to H.M. King George VI

Use "DUREX" Cellulose TAPE (fully transparent and in colours) FOR ALL YOUR PACKAGING JOBS



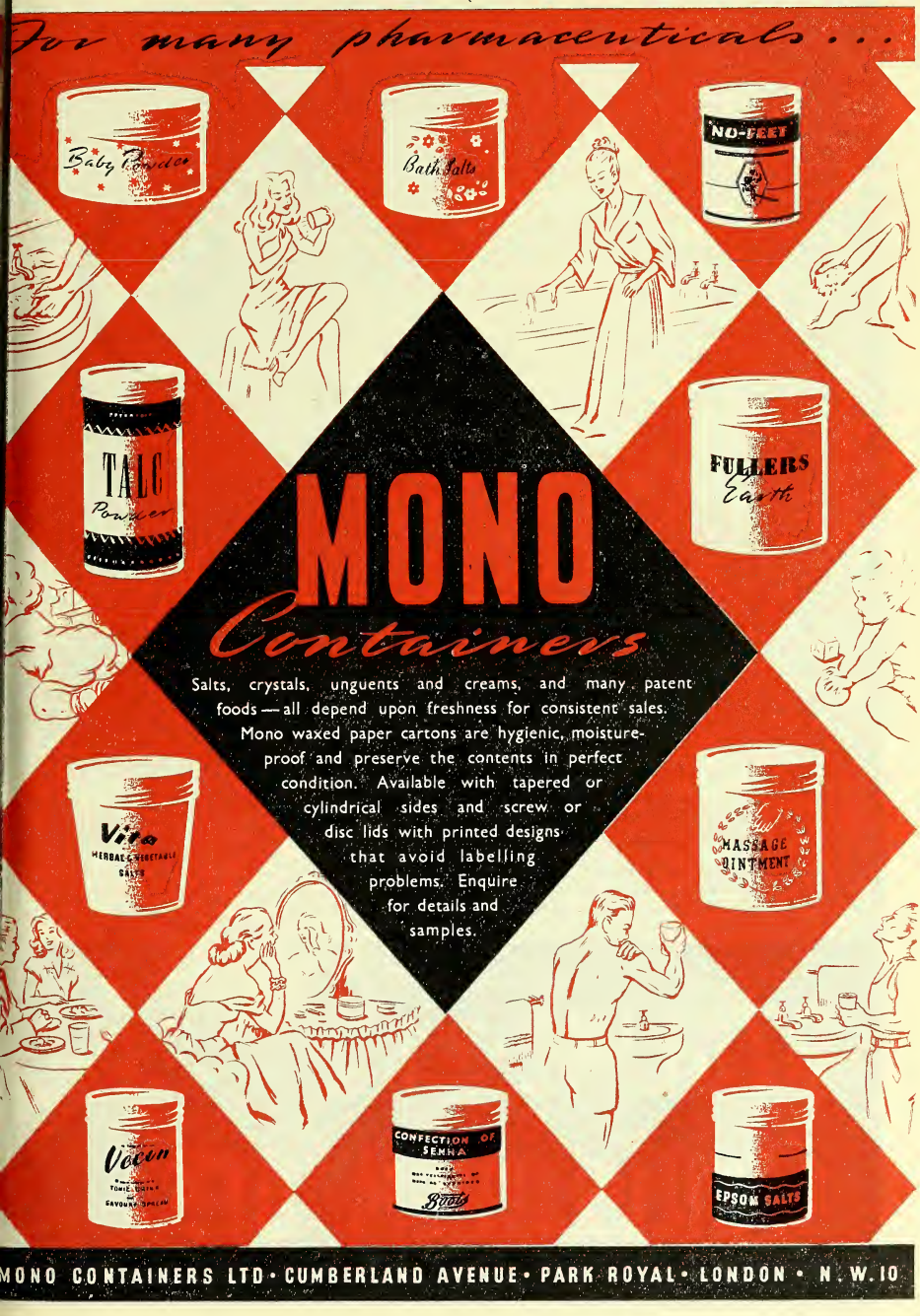
The Perfect Seal . . . for packs of any shape o size. . . . No heat or moisture required—simply apply with light finge pressure and it sticks. "DUREX" Cellulose TAPE is the only satisfactor closure for the moisture-proof type of cellulose film. . . . Write to-day fo full details and prices.

Transparent and in colours in rolls 72 yds. (2,592 ins.) long and in a range of widths.

"DUREX" Cellulose TAPE

DUREX ABRASIVES LTD., ARDEN RD., ADDERLEY PARK, BIRMINGHAM, 8

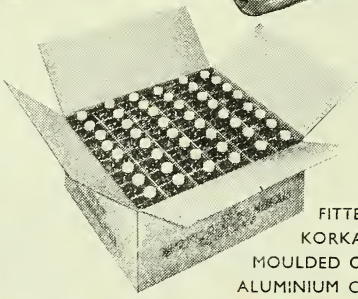
B.B.T


For many pharmaceuticals . . .
Baby Powder
Bath Salts
NO-FEET
TALC
Powder
FULLERS
Earth
MONO
Containers
Salts, crystals, unguents and creams, and many patent foods — all depend upon freshness for consistent sales. Mono waxed paper cartons are hygienic, moisture-proof and preserve the contents in perfect condition. Available with tapered or cylindrical sides and screw or disc lids with printed designs that avoid labelling problems. Enquire for details and samples.
Vita
HERBAL VEGETABLE SALTS
MASSAGE OINTMENT
Vocem
CONFECTION OF SENNA
Boots
EPSOM SALTS
MONO CONTAINERS LTD · CUMBERLAND AVENUE · PARK ROYAL · LONDON · N.W.10

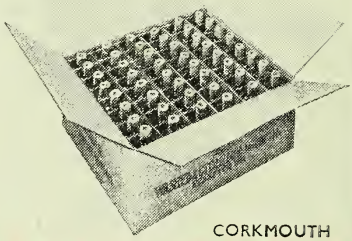
The Complete Service

WASHED AND STERILISED READY FOR USE





FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



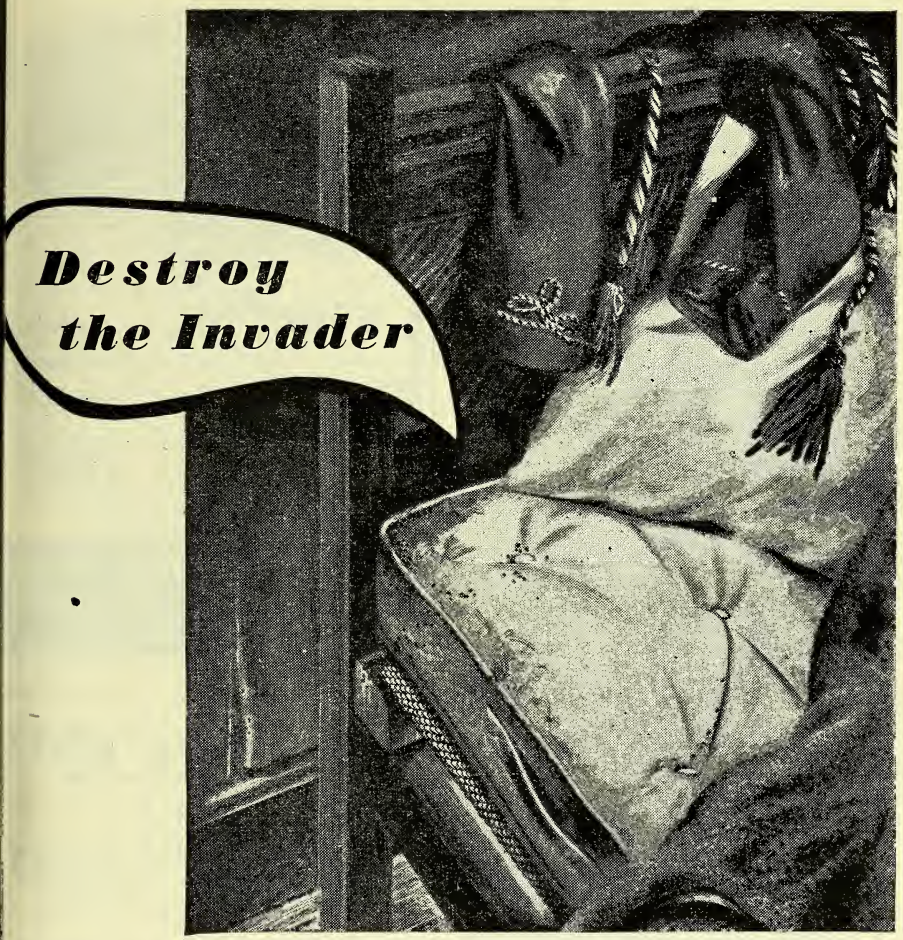
CORKMOUTH

UGB

UNITED GLASS BOTTLE MANUFACTURERS LTD.

LEICESTER STREET, W.C.2

Tel.: GERRARD 8611 (15 Lines) Grams: UNGLABOMAN, LESQUARE, LONDON



Modern hygiene demands extermination of the bed-bug. One application of **'Gammexane' Spray L.044** will eliminate this pest.

A well known London servicing company states that 'Gammexane' Spray represents a distinct advance on anything they have used hitherto.

'GAMMEXANE'

REGD.

THE BRITISH INSECTICIDE

G.40

IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1



CLEVER NEW ANGLE IN 'TIBS' ADVERTISING

Full story told in pictures
Pack now featured

'Tibs' press advertising now has a new stronger-than-ever sales appeal. Hitherto, in the familiar wordless 'strip' one of the cats has been shown as weak and listless in contrast to the abundant energy of the 'Tibs' cat, while the copy has driven home the specific claims of the product. The new 'Tibs' advertising goes a stage further. It tells *the whole story* in pictures, gives considerable and logical prominence to the 'Tibs' carton, and still backs up the pictorial message with strong and readable copy.

Look out for this advertising in the national and provincial press. Tie up with it by displaying 'Tibs' on your counter.

BOB MARTIN LTD., SOUTHPORT, LANCS.



You can always count on
GOSHERON for service with the friendly touch and the helping hand
Next time you need dependable
QUALITY in sealing, mechanical tying and special-purpose **TAPES**
may we have your enquiry?

JOHN GOSHERON & CO LTD
GAYFORD ROAD LONDON W12
SHE 3326 (five lines)
PW 10a/

"SURCO"

RELIABLE
ELASTIC HOSIERY
SEAMED AND SEAMLESS

For special garments to measure we give the best possible service

SURGICAL BELTS
TRUSSES AND SUNDRIES

50 years' service of everything Surgical

SURGICAL HOSIERY CO. LTD.
Russell Street • NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Nottm



It's CONTINUOUS QUALITY THAT COUNTS

—and this consistently maintained quality will ensure **CONTINUOUS SALES** of COX'S D.D.T. FLY and MOTH PAPERS; so be sure and stock up **NOW** to meet this ready-made demand. **GUARANTEED 100% impregnation and two-year life**, and proved to be the simplest and most effective solution to the fly menace, for **FLIES DIE IN 5-15 MINUTES.**

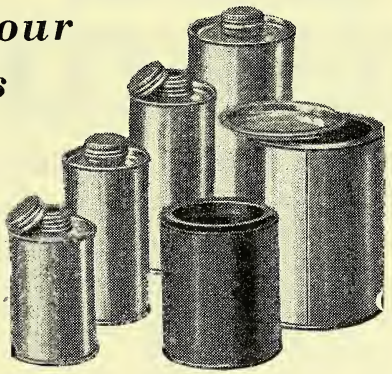
Cox's **D.D.T. FLYPAPERS**

First and Still Foremost

JAMES COX & CO.
Manufacturing Chemists
378, NORTHOLT ROAD, SOUTH HARROW, MIDDLESEX.
(formerly of Northwood)
Tel.: BYRon 4326

The answer to your container problems

Enquiries are invited for all types of lever-lid and screw-top cans, with solutioned or soldered seams. All sizes are available up to one gallon capacity. Please send for illustrated leaflets Nos. 62 and 73.



PERCENTA
THE CONTAINER PEOPLE
(PERCENTA LTD.)

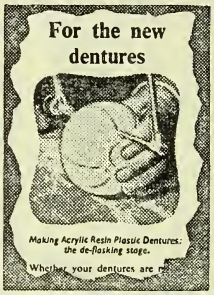
NOTE.—To support Government policy, we have marked down prices on many items.

PERCENTA HOUSE, 130/2 TOOLEY STREET LONDON, S.E.1
Phone: HOP 0516 (6 lines)

Steradent features plastic dentures









Early this year Steradent launched this advertising campaign on a national basis. Steradent has always been satisfactory for vulcanite dentures. We now have the assurance of the I.C.I., makers of "Kallodent," that Steradent is equally satisfactory for this brand of Acrylic Resin Dentures when used as directed. Production of Steradent is still difficult, but we are doing our best to meet the demand.



Steradent

CLEANS AND STERILISES EVERY TYPE OF DENTURE

RECKITT & COLMAN LTD · HULL AND LONDON

Applied before Work

ROZALEX

REG'D BRAND

Keeps Hands Clean & Healthy



Temporary Pack

For use in the home

Supplied in Tins

Retailing at 2/1 including Purchase Tax

Rozalex Limited, 10 Norfolk St., Manchester, 2

AMPOULE FILES

(BRIGHT FINISH and CADMIUM FINISH)

GOOD CUTTING EDGE

Send your orders to :—

JULES LANG & SON

96, HATTON GARDEN, LONDON, E.C.1

Telegraph: "Assorted Phone London". Holborn 8687 (5 lines)

MANOFDS
NEVROIDS
URICURE TABLETS
OCCASIONAL PILLS

THE ACTON PILL & TABLET Co. Ltd.
ASH VALE SURREY
and all Sundries Houses

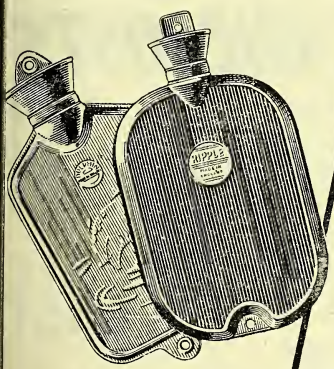
SHERLEY'S always make *Regular Customers!*



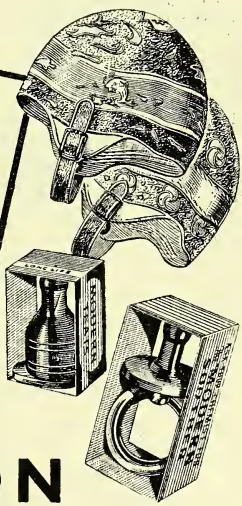
o be sure of a fair share of the big, gular demand for the Sherley's reparations please order well ahead— r empty shelves can only mean disap- ointment. There is no treasure like a gular customer. He is the mainstay of rofitable trading; a source of valuable od will. Adequate stocks of Sherley's og and Cat Medicines will keep the regulars" happy and turn many a casual" into a good friend.

SHERLEY'S DOG MEDICINES

. F. SHERLEY & CO. LTD., 16/18 MARSHALSEA ROAD, LONDON, S.E 1



All Cannon Rubber products are of the highest quality available today. Both at home and overseas these products have become popular because they are manufactured to most exacting standards. Wherever the CANNON trade mark appears, there you will find the best that is to be had.



Quality Goods by

Makers of 'Modern' and 'Wellborn' Teats, The 'Dolphin' and 'Ripple' Hot Water Bottles, 'Diver' and 'Rosette' Bathing Caps.

CANNON RUBBER

THE CANNON RUBBER MANUFACTURERS LIMITED · LONDON · N.17

VITAMINS LIMITED

DEVELOPMENTS IN RESEARCH

At the recent General Meeting of Vitamins Ltd., the Chairman, Mr. H. C. H. Graves, after dealing with the Company's accounts for the year—presented for the first time with the highly informative "new look" required by the Companies Act 1948—spoke of the acquisition of their new Research Headquarters—Walton Oaks Experimental Station.

Research in their field required many tools—Chemistry, Physics, Physiology, Zoology, Botany, Pharmacy, Mathematics, Animal Husbandry, Economics, Medicine—to name only a partial list. It required workers—they had graduates in all those sciences and more, on their research staff—and it required premises. Sited on the main Banstead-Dorking Road, only 18 miles from London and their Hammersmith factories, Walton Oaks provided them with nearly 300 acres of excellent freehold land, including two farms and 17 subsidiary cottages and other dwelling units, and seemed ideally suitable for conversion into one of the leading experimental stations of its kind in the country.

BEMAX FOR PROTEIN

There had been particular interest recently in the question of the country's protein supplies, from both nutritional and medical points of view. It was only comparatively recently that the value of Bemax in this connection had been fully recognised—the amino acid analysis of the proteins of Bemax indicated clearly why research workers had found it to be "first-class," i.e., comparable with egg or animal protein in biological value. Adding to this its well-known and rich content of vitamins and minerals made it easier, than had perhaps been the case in the past, to understand why Bemax was of such exceptional value, not only for growing children, for nursing and expectant mothers and for Olympic athletes but in fact for all who needed that little extra stimulant and standby.

INCREASING DEMAND FOR VITAMINS' SPECIALITIES

They had made several additions during the past year to their range of ethical medical products and it was now true to say that if "You want the best vitamins, we have them." This included not only all the standard pharmacopœial vitamin preparations but also their well-known specialities, Befortiss, Complevite, Fertilol, Pregnavite, which were not duplicated in the pharmacopœia and which offered advantages which the medical profession had long recognised, as proven by the increasing volume of prescriptions for them.

BLAKEY'S MALTED OATMEAL

The food that **for over 50 years** has helped to build Britain's Bonniest Babies.
The ideal diet for nursing mothers & invalids.

11P and **2/-**

BLAKEY'S FOOD CO. LTD., LINCOL

DRUGS
GALENICALS
PILLS-TABLETS
PROPRIETARIES
CHEMICALS
APPARATUS

CHEMISTS

IF YOUR LOCATION IS

NORTH EAST

Your Enquiries will be welcomed by

SPEEDY Delivery IN OUR OWN VANS WHEREVER POSSIBLE. Tel. 3207

MIDDLETO & CO. LTD.
BOUNDARY ROA
MIDDLESBROUG

EVERY TIME YOU SELL A LARGE SIZE CARTERS . . . 1/- FOR YOU!

YES, on every 3/10 size Carters that you sell you can make 1/- for yourself. You'll not find it difficult either, because the customer saves 10d. by buying the large size. He gets 5 extra pills, too. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits! Supplies are readily available.

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now!*
from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

ALWAYS IN DEMAND

Beaulah's

MALTED MILK

PACKED IN ONE POPULAR SIZE
2/6



J. & J. BEAULAH LTD.
BOSTON, LINCS.

LEC D.D.T. Spray



SPRAY - - - 2 0
SPRAYER - - 5 0

Complete Outfit RETAIL 7 0

Full trade discounts

Orders and enquiries invited from Wholesalers, Retailers & Agents.

LEC D.D.T. Fly Cards—24/- per gross.

LOVELUCK EDWARDS & CO.
432/440, GARRATT LANE, LONDON, S.W.18.

DŌ-DŌ

for **ASTHMA**

One Tablet is an effective dose

NOW IN THREE SIZES:
1s 3d, 3s 9d & 13s 1½d INCL.

P.A.T.A.



INTERNATIONAL LABORATORIES LTD
1-3, SMEDLEY STREET, LONDON, S.W.8.
MACaulay 3481-3. Telegrams : Parmintus, Clapcom Londo

'CONTENTA' GRIPE MIXTURE
for **BABIES**
" The label sells it "
BLACKWELL HAYES & CO. LTD., *Wholesale Druggists*
54-58 MOOR STREET, BIRMINGHAM, 4

AMPOULES
Ampouled Injections and Powder Ampoules in large or small quantities. Specialist production under experienced Chemical and Medical supervision.
Trade enquiries invited
MARKWELL, EDWARDS & CO. LTD.
589, High Road, London, N.12 **Hillside 5806**

FRANCO-BRITISH ELECTRICAL CO. LTD.
For Ampoules & Vials.
FIRTH STREET GLASSWORKS
LEEDS 9

Tablets and Pills *Packed or Bulk*

ASPIRIN
CASCARA
and all
TABLETS and PILLS

Private formulæ Pills and Tablets carefully and accurately prepared at lowest possible prices
Latest Automatic Pill Plant
WE WELCOME ENQUIRIES

CASTLE HUSKISSON LTD.
MANUFACTURING CHEMISTS
SWINTON WORKS, MOON STREET, ISLINGTON
LONDON, N.1
Telephone : **Canonbury 3466**
ESTABLISHED 1768

FOR THE INFORMATION OF PHARMACISTS

CLINICAL PRODUCTS LTD., RICHMOND, SURREY

ANNOUNCE THAT . .

polycrest ANTIPRURITIC CREAM

a general purpose antipruritic with causal and symptomatic therapeutic properties, for both sexes

IS NOW AVAILABLE

ACTIVE INGREDIENTS

Phenylmercuric nitrate	0.1%
Amethocaine	0.5%
Benzocaine B.P.	5.0%

INDICATIONS

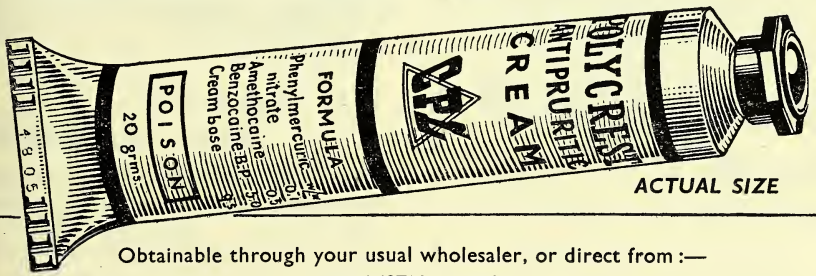
PRURITUS ANI, HÆMORRHOIDS, ANAL ECZEMA, DIABETIC PRURITUS and OTHER PRURITIC CONDITIONS OF DIVERSE ORIGINS including itching due to CHILBLAINS.

PACKINGS: In collapsible tubes of 20 gms. **4/9½d including purchase tax.**

Clinical Products team of medical propagandists are introducing the preparation to Doctors, Hospitals, Nursing Homes, Clinics etc., in all parts of the United Kingdom.

POLYCREST is being regularly advertised in the leading medical journals supported by an intensive medical mailing campaign.

To enable pharmacists to meet prescription demands accruing from these activities we would recommend that a small stock be carried.



ACTUAL SIZE

Obtainable through your usual wholesaler, or direct from :—

SOLE DISTRIBUTORS:

ENGLAND

S. MAW SON & SONS LTD.

ALDERSGATE HOUSE,
NEW BARNET, HERTS.

C.P.L

SCOTLAND

MOORE MEDICINAL PRODUCTS LTD.

1 QUEENS TERRACE, ABERDEEN

Fennings

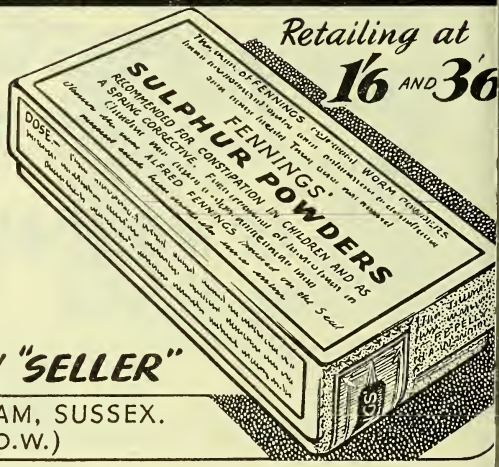
FAMOUS FOR OVER 80 YEARS

SULPHUR POWDERS

The Safe Corrective-

WIDELY ADVERTISED – ORDER NOW – AN EVERYDAY "SELLER"

Retailing at 1/6 AND 3/6



ALFRED FENNINGS, HORSHAM, SUSSEX.
(formerly of Cowes I.O.W.)

Reminder

Have you ordered

THE ORIGINAL

G.O.

QUININE TONIC

ORANGE FLAVOURED ?

"The 26 oz. Bottle with the Yellow Label"

Retailed at 4/- per bottle

24/- per doz., plus 8/- Tax

MILNER & COKE LIMITED
LEWISHAM · LONDON · S·E·13



IT SELLS ON SIGHT!

When your customers see this package of Feen-a-mint — the famous *original* chewing gum laxative—it sells on sight ! It is smartly cellulose-film wrapped and as display-worthy as ever ! Order to-day, from your usual wholesaler.

Feen-a-mint

WHITE LABORATORIES LTD., MITCHAM, SURREY

Laundry Tested! Double Action! Powder Free!

Now that we can supply more freely, we are proud to release for publication the news that new chemicals and principles, with the outstanding features shown above, can be offered for the first time on the British market in the form of

SPIC CREAM DEODORANT & ANTI-PERSPIRANT

In addition to the above claims Chemists will understand that by basing this Cream on non-ionogenic materials, there is no possibility of any permanent fabric staining.

NO STAIN–NO POWDER RESIDUE
NO FABRIC DAMAGE
PROLONGED ACTION

The introduction of products that are unique or have new outstanding features is our settled policy, and the foundation of the reputation we have built up over 50 years. You can depend on the merit and excellence of Demuth products.



RETAIL ..... 2s. 6d. including Tax.
WHOLESALE ... 16s. 4d. per dozen, plus 5s. 5d. Purchase Tax.

ATTRACTIVE COUNTER SHOW CARTONS SUPPLIED WITH EVERY ORDER

R. DEMUTH LTD

MAVINS COURT · FARNHAM · SURREY

Farnham 5194. Grams/Cables : Boulbene, Farnham, Surrey **& LONDON, N.W.6**

Yes! prompt delivery of

WE can now promise quick delivery of Juno-Junipah in reasonable quantities. The constantly growing demand is at last equalled by our greater production and your orders will have immediate attention.

JUNO - JUNIPAH

The Woman's Own Health Salts

THOMAS MARNS LTD.
2a Caxton Street, London, S.W.1
Phone WHitehall 6310 (A

Announcing
TWO NEW NUMBERS
in the "CLAPA" Minifilm Series

R.S.5—PUPPET PREVIEW
A fascinating puppet film introducing "Cairo Kate" executing her inimitable dance, "Witch's Hot Pot," Whatta Which, Sammy Skelcton and Dee Lirium add a touch of mystery. "What a Scandal!" with Lord Begood in a bit of a jam.

R.S.6—DOG SHOW
Popular show types are brought to the screen—Cairn, Sealyham and Bedlington breeds. Alsatian trials follow, showing amazing obedience and demonstrating methods used in tackling an intruder.

RETAIL PRICE 30/-

CLAPA MINIFILMS

Write for full details and Trade Terms:
CLAPHAM PARK FILM STUDIOS LTD
(16 mm. Dept.)
201-5 Clapham Park Road, London, S.W.4

"Leda"
BRINGS *MOST* PROFIT TO YOU



Ask your Wholesaler for "Leda" Baby Powder
per **1/6** tin
INCLUDING PURCHASE TAX

Sole Agents for N. Ireland: Whyte Reid & Mitchell, Ltd. 61/63 Donegall Pass, Belfast.
Sole Agents for Scotland: Southern Mfg. Co. Ltd. 214 West Regent Street, Glasgow, C.2.
Manufacturers:
LEDA CHEMICALS LTD., Ponders End, Middx.

New Values . . .

In response to the national call for a lowering of living costs, we are pleased to announce a reduction in price of all our well-known lines, to be effective on and after May 3rd, 1948. We have always aimed to supply the finest possible product at a price which is competitive, and in making this announcement of our reduced prices, we would stress that the quality of St. Andrew Mills productions remains as high as ever. Amended price lists showing purchase tax and profit margins will be sent willingly on request.

St. Andrew Mills reduce prices

ANDREX **1/0½D.** PER ROLL	ANDROL **1/1½D.** PER ROLL	STANEX **1/-** PER ROLL
MARVO **9½D.** PER ROLL	SAMARITAN **8D.** PER ROLL	ANDREX PAPER KITCHEN TOWELS **1/9D.** PER ROLL

★ *All above prices are retail and include purchase tax.*

WHOLESALE ONLY

ST. ANDREW MILLS LTD.

WALTHAMSTOW, E.17 *Tel : Larkswood* 1014·5·6

We regret that demands still exceed available supplies

Steady sales and good supplies



Extensive advertising of D.D.D. Balm — in the national provincial and periodical press and the women's journals — is a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of D.D.D. Balm are so steady. Supplies are now equal to demand — your wholesaler can deliver from stock.

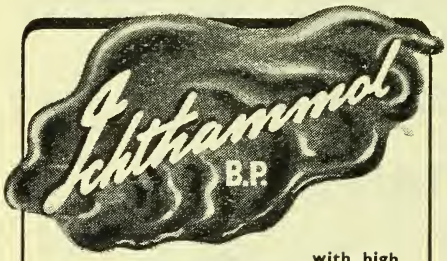
D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.

TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.

D.D.D. BALM

D.D.D. COMPANY LTD
3 FLEET LANE, LONDON, E.C.4

DISTRIBUTOR FOR NORTHERN IRELAND—MESSRS. J. & W. C. GAW, 30 BANKMORE ST, BELFAST
DISTRIBUTOR FOR EIRE—MESSRS. HENRY FINN & CO., LTD., CENTRAL HOTEL STOCKROOMS EXCHEQUER STREET, DUBLIN



with high organically combined sulphur content.

Other Asmidar Specialities include:

GLUTONINE (Asmidar)

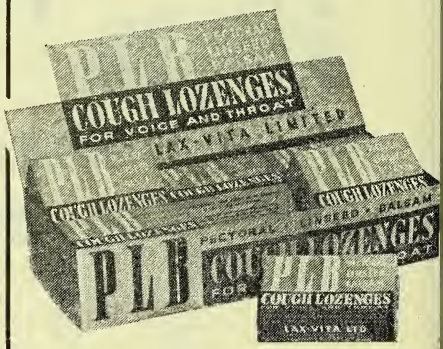
Strychnine Gluconate — Gives prolonged action with decreased toxicity. Boxes 8 x 1 c.c. ampoules 0.002, 0.0035, 0.005 gm.

ASMIDAR ANTI-RHEUMATIC Ointment

Non Greasy, Non Staining Analgesic
Size ¾ oz. Tubes.

Also—Piperazine (Asmidar) and Sulphazol Cream (Asmidar). Literature and information gladly supplied on request.

ASMIDAR LTD
16 DOUGLAS STREET, LONDON, S.W.1
Telephone: VICTORIA 5556



RETAIL PRICE **1/3d.** per packet
LIST RATE **8/-** per dozen
Purchase Tax 2/8d. per dozen.

All Orders taken in Strict Rotation as Supplies are Limited.

LAX-VITA LIMITED
66 Victoria Street, London, S.W.1
Phone: VICtoria 9936

Remind mothers there's

plenty of

Johnson's BABY POWDER *now*



Many mothers may not have really realised yet that as far as Johnson's Baby Powder is concerned the days of shortage are definitely over. So give Baby Powder a good display on your counter and remind mothers they can now let their babies revel in soothing showers of it. You'll find you'll soon have to order more yourself.

THE KINDEST POWDER IN THE WORLD

JOHNSON & JOHNSON (GT. BRITAIN) LTD. SLOUGH AND GARGRAVE

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

JULY 10 1948

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LEADING INFANT FOOD manufacturers require representatives aged 27-35 to call on welfare centres, hospitals, doctors and chemists. Pharmaceutical qualification or scientific training essential and must be able to drive a car. Several areas vacant, including Northern half Scotland. Send, in confidence, fullest details of career, including age and salary expected, to Box No. 10726, Saward, Baker & Co., Ltd., 27 Chancery Lane, W.C.2.

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OLD-ESTABLISHED manufacturing chemists have openings for experienced representatives requiring additional lines (well-known toilets and medicinals) for the following territories. North and South Wales, Midlands, Lancashire and Home Counties. Please give full details of territory covered, age and remuneration expected, to Box 4/104.

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PILL AND TABLET COATER. Experienced in all types of coating work, resident in London area, required by manufacturing chemists working 5-day week. Apply with full details of past experience, age and salary required. Box 4/101.

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REPRESENTATIVES REQUIRED

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REPRESENTATIVE (either sex) required for Warwicks, Worcs, Staffs and Salop, by London wholesale house, calling chemists, stores, haberdashery and baby shops to carry ladies' sanitary and toilet goods, surgical dressings, babies' sundries and haberdashery lines. Many live accounts, full support given. Box 4/117.

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REPRESENTATIVES required for following areas: (1) East London and Essex. (2) South-east London and Kent. (3) North London, Middlesex and Hertfordshire. (4) West Country. Interviews London. To sell to chemists, hairdressers, Co-ops. and other stores, attractive lines in cosmetics and perfumes. Salary, expenses and commission. Reply, full particulars of experience and age. Box 4/110.

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REPRESENTATIVES on commission basis required to carry well-advertised C.F. preparation to retail chemists. Good commission paid to suitable applicant. Must have well-established connection. Apply Box 4/73

RESIDENT REPRESENTATIVE for Northern Irelan aged 27-35, required by leading infant food man facturers to call on welfare centres, hospitals, do tors and chemists. Pharmaceutical qualification scientific training essential and must be able drive a car. Send, in confidence, fullest details career, including age and salary expected, to B 3/917.

SALES REPRESENTATIVE required for Southern a lower Midland Counties. Education and experien essential. Write, with full particulars, to Managi Director, H. Bronnley & Co., Ltd., Warple Wa London, W.3.

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UNQUALIFIED ASSISTANT required for dangerc drugs, poisons and dispensing department. Int esting and permanent position for suitable app cant. Reply, stating experience and salary e pected, to Chief Chemist, Hough, Hoseason Co., Ltd., Atlas Laboratories, Levenshulme, Ma chester. 19.

YOUNG, enthusiastic representative required to c on chemists and other outlets, in East Anglia f medicinal proprietaries, toiletries and surgical dr sings, etc. Apply, giving age, experience, wheth married, car driver and salary required, to Sa Manager, Fassett & Johnson, Ltd., 86 Clerk well Rd., London, E.C.1.

WHOLESALE (OVERSEAS)

EVANS MEDICAL SUPPLIES, LTD., Speke, Liv pool, 19, have vacancies for overseas represen tives. Applicants must be under 35 years of a qualified, and preferably single. Apply with details as to past experience, etc., to the Overs Trade Director.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional wo

RETAIL (HOME)

LADY, unqualified, 4 years' apprentice high-cl pharmacy, 16 years retail, excellent saleswoma desires part-time post busy pharmacy, Kingsto Weybridge, Staines area. Own car. Box 4/1

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WHOLESALE

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NCASHIRE, Cheshire, I.O.M. Excellent estab- d connections wholesale, retail chemists, Co-op. eties, departmental stores. Interested in hand- manufacturers or foreign merchandise. Com- ion and expenses basis. At present representing ing manufacturer but desires change owing to xpected alteration in selling policy. Box 4/115.

DICAL REPRESENTATIVE, 20 years' experience paganda for ethical houses, desires change. hest references. Box 4/49.

PRESENTATIVE with established connection in . of England, S.W. of Wales, desires a change. ary, commission and expenses required. Box 08.

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APPOINTMENTS

CHASE FARM HOSPITAL, ENFIELD
MIDDLESEX

REGISTERED ASSISTANT PHARMACIST

equired Non-resident, unestablished post, or ocum capacity if preferred. Salary £370 p.a. y annual increments to £450 p.a. incl. If ocum, up to 10 gns. p. wk., according to xperience, for maximum period of three nonths. Recently qualified pharmacists con- idered. Every assistance given to find suitable ccommodation locally. Application, stating ge, qualifications, experience, with copies of p to three recent testimonials, to MEDICAL DIRECTOR of Hospital by July 17. No forms.

HILL END HOSPITAL, ST. ALBANS

ASSISTANT PHARMACISTS required. Salary n accordance with the Joint Negotiating oard's Report (Hospital Staff). (£370 p.a. ising by £15 p.a. to £450 p.a. inclusive of ost of living bonus). Apply, stating age, ualifications and particulars of experience, to Medical Director.

HILL END HOSPITAL, ST. ALBANS

ASSISTANT PHARMACIST (Locum Tenens), nale or female, required for duty immediately. Salary £8 8s. per week with full board, lodging nd laundry. Apply, stating age and qualifi- ations to the Medical Director.

KING'S COLLEGE HOSPITAL, DENMARK HILL, S.E.5

ASSISTANT PHARMACIST (registered) required. Salary and hours in accordance with the J.N.C. revised scale. Superannuation scheme in operation. Applications, with details of experience, should be sent to The Pharmacist at the above address.

MIDDLESEX COUNTY COUNCIL
WEST MIDDLESEX COUNTY HOSPITAL, ISLEWORTH, MIDDX.

ASSISTANT PHARMACIST, J.N.C. (Hosp. Staffs) scale, £370 p.a.-£450 inclusive. Similar experience may determine commencing salary. Must hold one of Pharmaceutical Society's qualifications. Whole-time duties under Medical Director and Chief Pharmacist. Established, subject to medical examination. Applications, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR (quoting D570 CD).

LOCUM PHARMACIST required immediately for an indefinite period. Salary 8-10 guineas inclusive, according to experience. Applications to Medical Director of Hospital, stating age, qualifications, experience, with up to three recent testimonials (quoting D.949 CD).

C. W. RADCLIFFE,
Clerk of the County Council.

Middlesex Guildhall,
S.W.1.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD. No forms. (Male candidates to state position with regard to Military Service.)

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE.
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

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	20 gr. „	2/1	1/2 +	5	14/- + 4/8
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OPHTHALMO-ANTIPEOL					
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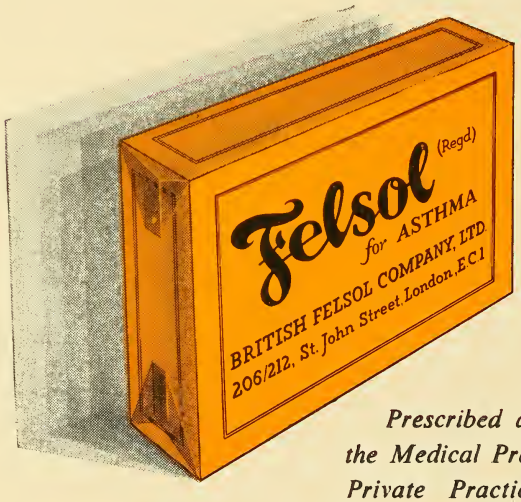
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